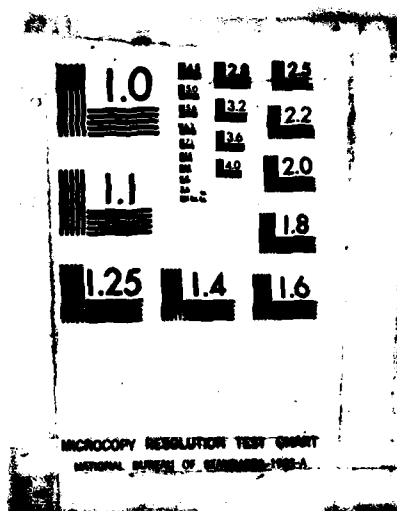


SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY (COMMAND)
DETACHMENT ASHEVILLE NC OCT 83

14

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AD-A150 438

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SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #93115 Imperial Beach, CA

PERIOD: April 1945-December 1982

JOB NO. 72006

DATE October 1983

PREPARED BY
NAVAL OCEANOGRAPHY
COMMAND DETACHMENT,
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

PREPARED FOR
COMMANDER,
NAVAL OCEANOGRAPHY
COMMAND
NETL NS 30529



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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Imperial Beach, CA		5. TYPE OF REPORT & PERIOD COVERED Reference Report 1973-1982
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) NA		8. CONTRACT OR GRANT NUMBER(s)
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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STATION NO. OR SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT)	CALL SIGN:	WMO NUMBER:
93115	Imperial Beach, California	32°34' N	117°07' W	23	KNRS	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BARRMETER	
1.	Weather Service Office	Navy	1951	1968	32°34' N	117°07' W	28	Aneroid	Var
2.	" "	"	1968		"	"	23	"	"
3.	" "	"	1955	1956	"	"	29	Mercurial	"
3a.	" "	"	1956	1963	"	"	27	"	"
3b.	Inside bulkhead of Ops Bldg.	"	1963	1968	"	"	27	"	"
3c.	West wall in weather office	"	1968	1968	"	"	21	"	"
4.	*New ML-512/GM installed west wall in weather office 12/69	"	1969	1976	"	"	21	"	"
5.	Naval Weather Service Facility	"	1977	1980	"	"	28	Aneroid	"
5a.	Naval Oceanography Command Det/ NOCF San Diego	"	1980		"	"	36	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Note: Wind vane oriented 30° west of true north prior to 12/20/55. Mounted on roof of operation tower.	AN/UMQ-5B		50 MSL	1. Barograph (open scale) 2. Semi-auto met station (AN/GMQ-14B) 3. Cloud height set (AN/GMQ-13) 4. Thermoscreen (ML-41)
2.	1955	Top of control tower (new transmitter)	"	RD-108B	"	
3.	1962	Adjacent to runway 09R (2200' WSW of operations bldg)	AN/UMQ-50	"	31 MSL	
4.	1966	" "	"	"	23 MSL	
5.	1968	Adjacent to runway 09R (4280' WSW of ops bldg) (new ops bldg 8/26/68)	"	"	"	
6.	1968	" "	"	"	9'	
7.	1979	2600' W of Bldg 185 and 500' north of centerline runway 27	"	"	7'	

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CONTINUED ON REVERSE SIDE

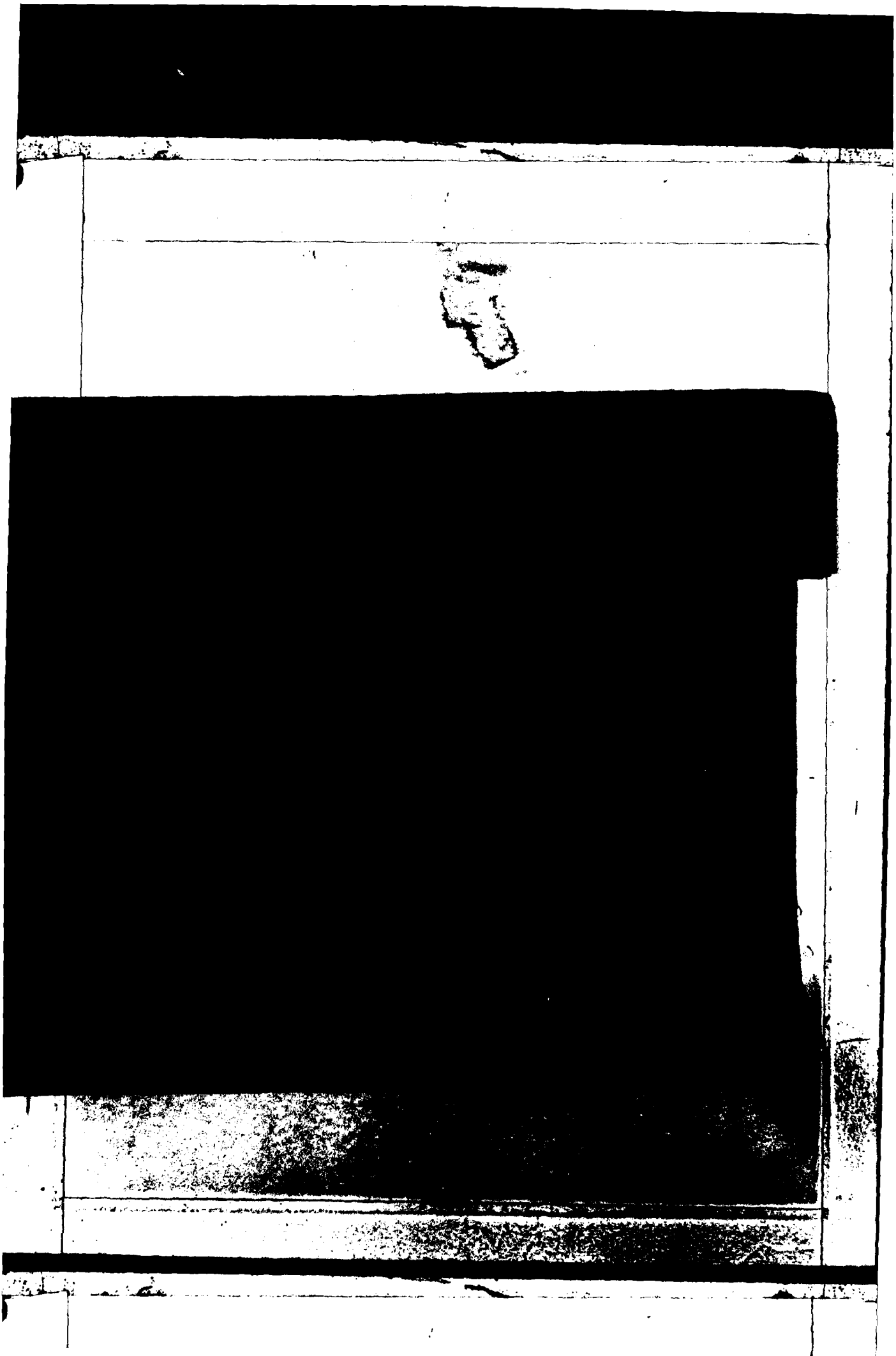
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCDD), Asheville, N.C. welcomes your comment and criticisms.



NOCD, Federal Building
Asheville, N. C.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

WEATHER CONDITIONS ATMOSPHERIC PHENOMENA

43115 IMPERIAL BEACH, CALIFORNIA 45-49, 55-57, 59-71, 73-74 ALL

STATION STATION NAME YEARS MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		29.0			.2	26.5	43.8	35.6		.4	54.9	475
FEB		1.4	27.1			.7	25.8	41.4	40.2			54.7	430
MAR		1.0	29.0			.2	26.8	38.2	30.9			43.8	482
APR		1.3	26.5			.6	25.7	36.8	41.9			50.1	475
MAY			21.5				18.7	24.3	33.8			40.5	477
JUN		.2	28.2				25.9	42.8	49.8			57.4	474
JUL		.6	10.9				9.5	49.1	67.4			77.8	527
AUG		.2	8.3				7.7	48.0	63.3			71.0	496
SEP		.4	13.1				12.3	52.2	65.5			71.1	464
OCT		1.1	15.8			.2	15.6	53.8	60.1		.6	68.1	474
NOV		1.0	23.7				22.1	47.6	42.1		1.2	58.6	485
DEC		.6	25.4		.2	.2	23.8	49.6	37.4		.8	58.7	484
TOTALS		.6	21.5		.0	.2	20.0	44.0	47.3		.2	58.9	5743

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		25.0				25.0	25.0	25.0			25.0	4
	04								20.0			20.0	5
	07		6.7				6.7	12.6	5.6			16.4	269
	10		6.0				6.0	5.6	10.6		1.1	15.8	284
	13		6.0				6.0	2.5	10.6		.4	12.7	284
	16		7.9				7.9	2.9	10.0			12.5	280
	19		9.4				9.4	5.6	5.6			9.9	233
	22		11.3				11.3	7.5	11.3			15.1	106
TOTALS			9.0				9.0	7.7	12.3		.2	15.9	1465

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01												
	04												1
	07		5.8				5.8	18.1	11.5			24.3	243
	10	.4	5.0			.4	5.0	8.8	15.7		.4	21.1	261
	13		2.7				2.7	5.0	13.0			14.9	261
	16		5.1				5.1	6.3	12.9			17.2	256
	19		6.0				6.0	8.8	9.8			15.3	215
	22		4.2				4.2	9.5	16.8			23.2	95
TOTALS		.1	4.1			.1	4.1	8.1	11.4		.1	16.6	1337

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WEATHER CONDITIONS

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IMPERIAL BEACH, CALIFORNIA

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	01												
	04												
	07		7.6				7.6	12.4	13.8			21.1	275
	10		8.9				8.9	4.8	12.3			15.8	292
	13	.3	7.5				7.5	3.1	7.5			9.2	292
	16		6.0				6.0	2.8	3.2			5.3	283
	19	.4	6.5				6.5	.8	3.6			4.0	248
	22	.8	7.6				7.6	.8	1.5			2.3	131
TOTALS		.3	7.4				7.4	4.1	7.0			9.6	1521

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WEATHER CONDITIONS

93115 IMPERIAL BEACH, CALIFORNIA 73-82 APR

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APP	01												3
	04												1
	07		2.2				2.2	11.5	20.7			27.0	270
	10		2.1				2.1	3.6	15.7			17.8	281
	13		2.1				2.1	1.8	12.1			12.5	281
	16		2.2				2.2	1.1	10.0			10.0	269
	19		2.0				2.0	1.6	8.9			9.8	246
	22		1.4				1.4	.7	9.3			10.0	140
TOTALS			1.5				1.5	2.5	9.6			10.9	1491

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01								50.0			50.0	2
	04		50.0				50.0	50.0				50.0	2
	07		5.4				5.4	19.4	29.1			37.4	278
	10		3.2				3.2	9.0	24.8			27.0	278
	13		1.4				1.4	1.4	17.3			17.6	278
	16		1.2				1.2	2.9	13.2			13.6	242
	19		.4				.4	4.3	12.1			13.4	231
	22		2.2				2.2	4.4	12.6			14.1	135
TOTALS			8.0				8.0	11.4	19.9			27.9	1446

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WEATHER CONDITIONS

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IMPERIAL BEACH, CALIFORNIA

73-82

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01												
	04												
	07		3.9				3.9	31.1	47.7			63.6	283
	10		1.4				1.4	6.1	42.4			46.3	283
	13		.4				.4	2.1	26.6			27.0	262
	16							1.6	21.6			22.2	246
	19							7.6	17.2			22.3	238
	22							11.5	21.0			26.6	157
TOTALS			1.0				1.0	10.3	29.3			34.7	1491

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01												1
	04												
	07		1.1				1.1	35.3	60.4			68.9	283
	10		1.4				1.4	11.6	50.5			53.3	285
	13		.4				.4	2.5	29.5			29.5	285
	16		.9				.9	.9	15.8			15.8	234
	19							1.8	14.5			15.0	227
	22							5.9	20.3			22.9	153
TOTALS			.5				.5	8.3	27.3			29.3	1468

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01							100.0	100.0			100.0	1
	04							100.0				100.0	1
	07		2.1				2.1	34.6	57.1			66.8	289
	10							8.3	50.9		.3	52.6	289
	13		1.4				1.4	2.1	31.5			31.5	289
	16		.8				.8	.8	18.6			18.6	258
	19		.8				.8	1.7	19.2			19.6	240
	22		.6				.6	5.8	14.8			16.8	155
TOTALS			.7				.7	31.7	36.8		.0	50.7	1822

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WEATHER CONDITIONS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01							100.0	100.0			100.0	1
	04							50.0				50.0	2
	07		2.2				2.2	28.3	53.3			60.3	272
	10		2.2				2.2	9.2	48.9			49.6	272
	13	.4	1.5				1.5	5.1	32.7			33.5	272
	16	.4	1.3				1.3	2.6	23.0			23.4	235
	19		.4				.4	4.0	21.2			22.1	226
	22		1.4				1.4	5.6	14.6			18.3	142
TOTALS		.1	1.1				1.1	25.6	36.7			44.7	1422

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-92

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLLET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01												
	04												
	07		1.1				1.1	30.4	44.6			53.6	276
	10		1.1				1.1	10.7	46.6			49.1	281
	13		1.8				1.8	6.0	36.3			37.7	281
	16	.4	2.4				2.4	4.1	30.2			31.4	245
	19	.4	1.3				1.3	9.3	26.1			27.4	226
	22	1.4	2.1				2.1	18.4	31.2			34.0	141
TOTALS		.4	1.6				1.6	13.2	36.8			38.9	1450

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01												5
	04												6
	07		3.6				3.6	15.3	21.7			29.7	249
	10		2.3				2.3	11.0	22.3			26.6	264
	13		2.3				2.3	4.9	22.7			23.5	264
	16		1.5				1.5	4.2	21.2			22.0	264
	19		2.3				2.3	10.2	16.7			21.8	216
	22		2.1				2.1	13.5	17.7			27.7	141
TOTALS			1.8				1.8	7.4	16.3			18.9	1409

NAVWEASERVCOM

WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01							50.0				50.0	2
	04												1
	07		5.8				5.8	17.8	13.6		.4	28.3	258
	10		1.9				1.9	9.7	17.9		.4	25.0	268
	13		2.2				2.2	4.5	18.7		.4	21.3	268
	16		2.6				2.6	4.9	17.2		.4	20.6	267
	19		.5				.5	13.2	16.5		.5	25.0	212
	22		1.6				1.6	23.0	15.9			33.3	126
TOTALS			1.8				1.8	15.4	12.5		.3	25.4	1402

NAVWEASERVCOM

WEATHER CONDITIONS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.0				9.0	7.7	12.3		.2	15.9	1465
FEB		.1	4.1			.1	4.1	8.1	11.4		.1	16.6	1332
MAR		.3	7.4				7.4	4.1	7.0			9.6	1521
APR			1.5				1.5	2.5	9.6			10.9	1491
MAY			8.0				8.0	11.4	19.9			27.9	1446
JUN			1.0				1.0	10.3	29.5			34.7	1491
JUL			.5				.5	8.3	27.3			29.3	1468
AUG			.7				.7	31.7	36.5		.0	50.7	1522
SEP		.1	1.1				1.1	25.6	36.7			44.7	1422
OCT		.4	1.6				1.6	13.2	35.8			38.9	1450
NOV			1.8				1.8	7.4	15.3			18.9	1409
DEC			1.8				1.8	15.4	12.5		.3	25.4	1402
TOTALS		.1	3.2			.0	3.2	12.1	21.1		.0	27.0	17419

NAYWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 JANUARY ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.3										11.6			86.0
NNE									7.5		12.5			82.5
NE		3.2							6.5	3.2	9.7			80.6
ENE		1.6							4.9	3.3	9.8			85.2
E	4.0	1.3							4.8	.9	8.8		.4	82.4
ESE	4.7	4.7	1.6						4.7	1.6	4.7		4.7	78.1
SE	15.8	13.2							15.8		2.6			57.9
SSE	14.0	14.0	2.3						9.3		2.3			67.4
S	9.4	15.1	1.9						5.7	.9	1.9			69.8
SSW	1.3	4.0							4.0		10.7			82.7
SW	1.2	7.0							1.8		8.8			80.7
WSW	2.4	4.7							8.2	1.2	5.9			81.2
W	.6	2.4	.6						4.2		11.3			82.7
WNW	.8	.8	.8						3.2	.8	9.6			85.6
NW	2.2								4.4		11.0			83.5
NNW			2.2						6.5	2.2	8.7			82.6
VARIABLE														
CALM	1.6	.6	.6						4.1		12.7			80.8
TOTAL	42	92	8						77	10	130		4	1179
% TOTAL	3.3	3.5	.8						5.3	.7	8.9		.3	80.5

TOTAL NUMBER OF OBSERVATIONS 1,465

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

FEBRUARY

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		2.5							5.0		30.0			62.5
NNE									7.7		7.7		2.6	87.2
NE									17.6	2.9	14.7			67.6
ENE	1.7								6.9		8.6			84.5
E	1.9	3.2	.6						12.1	1.9	7.6			77.7
ESE		2.3							6.8	2.3	13.6			81.8
SE	11.1		3.7						7.4		11.1			70.4
SSE	12.1	12.1							12.1		6.1			66.7
S	6.5	7.5							8.6		5.4			77.4
SSW		8.3							14.6		10.4			77.1
SW	1.9	3.7							7.4		3.7			87.0
WSW	1.4	1.4							10.8	2.7	10.8			82.4
W	.5	2.8							5.6	.6	15.7			77.5
WNW	.5	1.3							5.0		17.5			78.8
NW	1.0	1.0							4.9		10.7			84.5
NNW	2.0	2.0					2.0	2.0	6.1		20.4			73.5
VARIABLE														
CALM	2.1	1.4							13.9	.7	12.9			86.1
TOTAL	26	36	2				1	1	115	9	173		1	1030
% TOTAL	2.0	2.7	.2				.1	.1	8.6	.7	13.0		.1	77.5

TOTAL NUMBER OF OBSERVATIONS

1,332

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 MARCH ALL
STATION STATION NAME YEARS MONTH HOURS 11, 5, 7, 1

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.2								4.2		4.2			87.5
NNE		5.6						5.6	5.6	5.6	16.7			77.8
NE	5.6										11.1			83.3
ENE	2.9	2.9							5.9		8.8			79.4
E		3.1	.8						7.9	2.4	13.4			78.7
ESE	2.5	2.5							10.0		7.5			85.0
SE	5.6	5.6	5.6						16.7		11.1			66.7
SSE	5.9	25.6							11.8		5.9			67.6
S	14.8	10.2	4.6						6.5		1.9			69.4
SSW	2.9	3.8	1.9						1.9		3.8			88.5
SW	1.1	6.3	4.2					1.1	6.3		6.3			78.9
WSW		6.5	1.4						2.9		7.2			84.2
W	1.5	1.5	1.5					.3	2.5	.9	8.3			86.1
WNW		5.0							1.1	.6	8.3			85.6
NW		1.9	.9						.9		3.7			92.6
NNW											7.5			92.5
VARIABLE														
CALM	2.1	1.0							5.2		11.3			82.5
TOTAL	34	62	21					3	60	8	116			1267
% TOTAL	2.2	4.1	1.4					.2	3.9	.5	7.6			83.3

TOTAL NUMBER OF OBSERVATIONS 1,521

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

47115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 APRIL ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											10.0			90.0
NNE									9.1					90.9
NE									8.3		16.7			75.0
ENE			4.0						12.0		20.0			72.0
E		2.0							6.1	2.0	20.4			69.4
ESE									10.7		28.6			71.4
SE	12.5								12.5		12.5			62.5
SSE	10.5	5.3							5.3		10.5			73.7
S	1.5	3.1							4.6		10.8			81.5
SSW									3.1		16.5			70.5
SW		1.8	.9						3.7		9.2			15.2
WSW		1.7	.6						4.0		13.6			83.0
W	.3	.8	.6						1.7		12.4			85.4
WNW	.4	.4							1.6		9.7			89.3
NW	2.9										11.5			85.6
NNW														100.0
VARIABLE														
CALM	2.0		1.0						6.9	2.0	17.0			73.3
TOTAL	11	14	6						50	4	195			1242
% TOTAL	.7	.9	.4						3.4	.3	13.1			83.3

TOTAL NUMBER OF OBSERVATIONS 1,491

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

MAY
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									33.3		50.0			50.0
NNE									25.0		50.0			25.0
NE									16.3		57.1			42.9
ENE		6.7							20.0		26.7			53.3
E		3.1							6.3		28.1			68.8
ESE									6.3					91.7
SE														100.0
SSE	3.3	8.3	4.3						25.0		25.0			41.7
S		2.5	1.3						8.8		16.3			78.8
SSW			4.0						10.1		19.8			75.2
SW	6.6		2.3						4.5		16.9			80.2
WSW		.4	2.1						5.0		17.2			79.9
W		.8	1.4						6.8		19.2			77.5
WNW			1.7						6.3		21.3			76.4
NW									6.2		18.5			78.5
NNW									76.7		20.0			66.7
VARIABLE									4.3	1.2	18.3			78.0
CALM														
TOTAL	2	9	25						106	1	276			1113
% TOTAL	.1	.6	1.7						7.3	.1	19.1			77.0

TOTAL NUMBER OF OBSERVATIONS 1,446

NAVWEASERVCOM

2241

4

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

JUNE

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N			7.1						14.3		71.4			21.4
NNE									8.3		50.0			33.3
NE									16.7		33.3			66.7
ENE										16.7	50.0			33.3
E									14.3		35.7			57.1
ESE									20.0		40.0			40.0
SE									57.1		57.1			28.6
SSE			12.5						37.5		52.5			37.5
S	1.4		4.2						15.5	1.4	29.6			60.6
SSW	.8								10.4		29.6			64.0
SW			.6						12.3		33.1			60.4
WSW			1.0						7.3		25.9			68.8
W			.7						4.0	.2	28.9			71.0
WNW			.3						8.7	.9	28.9			65.6
NW			2.6						12.8	1.3	48.2			48.7
NNW									29.6		37.0			44.4
VARIABLE														
CALM									12.0	1.9	28.1			60.3
TOTAL	2		14						149	8	455			949
% TOTAL	.1		.9						10.0	.5	30.3			63.6

TOTAL NUMBER OF OBSERVATIONS 1,491

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

JULY

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									50.0		100.0			
NNE									37.5		62.5			25.0
NE									28.6		71.4			14.3
ENE									40.0		60.0			20.0
E									40.0		60.0			20.0
ESE														
SE											50.0			50.0
SSE														100.0
S			1.3						18.4		32.9			59.2
SSW		.7	1.3						16.0		35.3			61.3
SW		.8							10.8		29.2			67.7
WSW		.4							6.2		30.7			68.0
W			.7						6.8		36.6			62.1
WNW			.4						5.7		29.4			68.9
NW									16.1		39.3			45.4
NNW									28.6		55.7			14.3
VARIABLE									22.3	1.0	30.1			62.1
CALM														
TOTAL		3	7						184	1	300			927
% TOTAL		.2	.5						10.8	.1	34.1			63.1

TOTAL NUMBER OF OBSERVATIONS 1,468

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

AUGUST

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									9.1		54.5			45.5
NNE		12.5							25.0		37.5			50.0
NE											45.2			53.8
ENE									50.0		70.0			20.0
E									29.4	8.9	47.1			29.4
ESE									25.0	12.5	37.5			50.0
SE									50.0		55.7			33.3
SSE									25.0		50.0			50.0
S	1.7		1.7						22.4		43.1		1.7	48.6
SSW	2.8								11.2		42.1			50.5
SW		.7							6.0		33.8			63.4
WSW			.5						10.7		33.8			63.3
W	.2								3.8		27.3			72.0
WNW									6.0		30.4			67.6
NW	.9								14.2		38.7			57.3
NNW			4.3						6.7		26.1			73.9
VARIABLE														
CALM	1.0	.8	.8						19.7		41.4			50.0
TOTAL	8	3	4						143	2	520		1	954
% TOTAL	.5	.2	.3						9.8	.1	34.2		.1	62.7

TOTAL NUMBER OF OBSERVATIONS

1,522

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 SEPTEMBER ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	10.0								10.0		20.0			70.0
NNE									22.2		44.4			44.4
NE									36.8		42.1			52.6
ENE									23.8	4.8	38.1			47.6
E									14.0		48.8			51.2
ESE	6.3								12.5		37.5			56.3
SE											50.0			50.0
SSE		11.1									33.3			55.6
S		1.4	2.9						17.1		24.3			69.7
SSW		1.9	1.0					1.0	12.6		27.2			67.0
SW	1.1	1.1							10.1	1.1	38.2			56.2
WSW		.7						.7	11.1		34.0			63.9
W	.3	.6	.6						6.3		34.0			62.2
WNW			.3						6.4	.3	37.7			61.3
NW		.8							3.8		26.3			71.4
NNW			5.4						8.1		21.6			75.7
VARIABLE									11.5	.6	14.2			60.0
CALM														
TOTAL	4	10	8					2	137	4	476			888
% TOTAL	.3	.7	.6					.1	9.8	.3	33.5			62.4

TOTAL NUMBER OF OBSERVATIONS 1,422

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

OCTOBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N			4.3						17.4		17.4			73.9
NNE									29.4	5.9	32.9			47.1
NE		3.8							23.1		42.3			46.2
ENE									28.0		22.8			70.0
E		3.0						2.0	24.8	2.0	39.6			50.5
ESE									33.3		41.7			50.0
SE									23.1		18.4			61.5
SSE									12.5		12.5			87.5
S	4.2	4.2						4.2	10.4		20.8			64.6
SSW	2.2	1.1							7.7		24.2			69.2
SW		2.7							8.2		23.3			69.9
WSW	1.0	1.0							8.7		36.2			61.9
W		1.1							9.7		37.3			59.7
WNW		1.2							8.3	1.6	47.1			51.0
NW		.8							8.3	1.7	39.2			57.5
NNW									10.8	2.7	39.1			62.2
VARIABLE									17.4	.8	18.3			37.2
CALM														
TOTAL	5	17	1					4	175	13	530			850
% TOTAL	.3	1.2	.1					.3	12.1	.9	38.6			58.6

TOTAL NUMBER OF OBSERVATIONS

1,450

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 NOVEMBER ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									8.0		20.0			78.0
NNE									7.7		10.3			80.6
NE		2.6							7.3		12.2			85.4
ENE			1.3						7.9	1.3	21.1			71.1
E	1.2	.6							12.6	1.2	16.8			73.7
ESE			2.0						16.0	2.0	20.0			70.0
SE	10.5										31.6			57.9
SSE	6.7								13.3		26.7			60.0
S	6.4	4.3	4.3						4.3	2.1	10.6			70.2
SSW		5.6							4.1	1.4	10.8			81.1
SW		2.6							5.3		15.8			78.9
WSW		2.4							7.3		20.7			74.4
W	1.1		.6						9.0		27.5			69.1
WNW	.7	.7							6.2	1.4	25.3			71.3
NW	.9								7.8	.9	23.3			73.3
NNW	1.6	1.6							4.9		19.7			73.8
VARIABLE														
CALM									11.3	.8	20.2			71.7
TOTAL	13	15	8						122	10	205			1033
% TOTAL	.9	1.1	.6						8.7	.7	20.2			73.3

TOTAL NUMBER OF OBSERVATIONS 1,409

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

DECEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		1.8							3.6		18.2			78.2
NNE		4.8							13.3	2.2	8.9			77.8
NE	2.0								4.0		6.0			88.0
ENE			1.1						11.0	1.1	18.7			74.7
E		.9	1.3						13.3	.9	17.3		2.2	68.6
ESE	2.9								20.0	8.7	22.9			62.9
SE	3.7								14.8		7.4			77.8
SSE		5.0	5.0						10.0		10.0			70.0
S	5.2	3.4	3.4						17.2		8.8			69.0
SSW	2.7	4.1	1.4						5.4		16.2			74.3
SW									9.8		13.7			78.4
WSW		3.2							3.2		21.0			78.8
W	.7	.7							10.3		28.3			68.3
WNW									3.8	.8	14.8			81.3
NW									4.0		17.3			80.0
NNW									2.8		23.1			76.9
VARIABLE														
CALM		.9	1.4						12.9	.9	12.8			68.8
TOTAL	9	16	11						147	8	234		5	1030
% TOTAL	.8	1.4	.8						10.3	.8	18.7		.4	73.3

TOTAL NUMBER OF OBSERVATIONS 1,402

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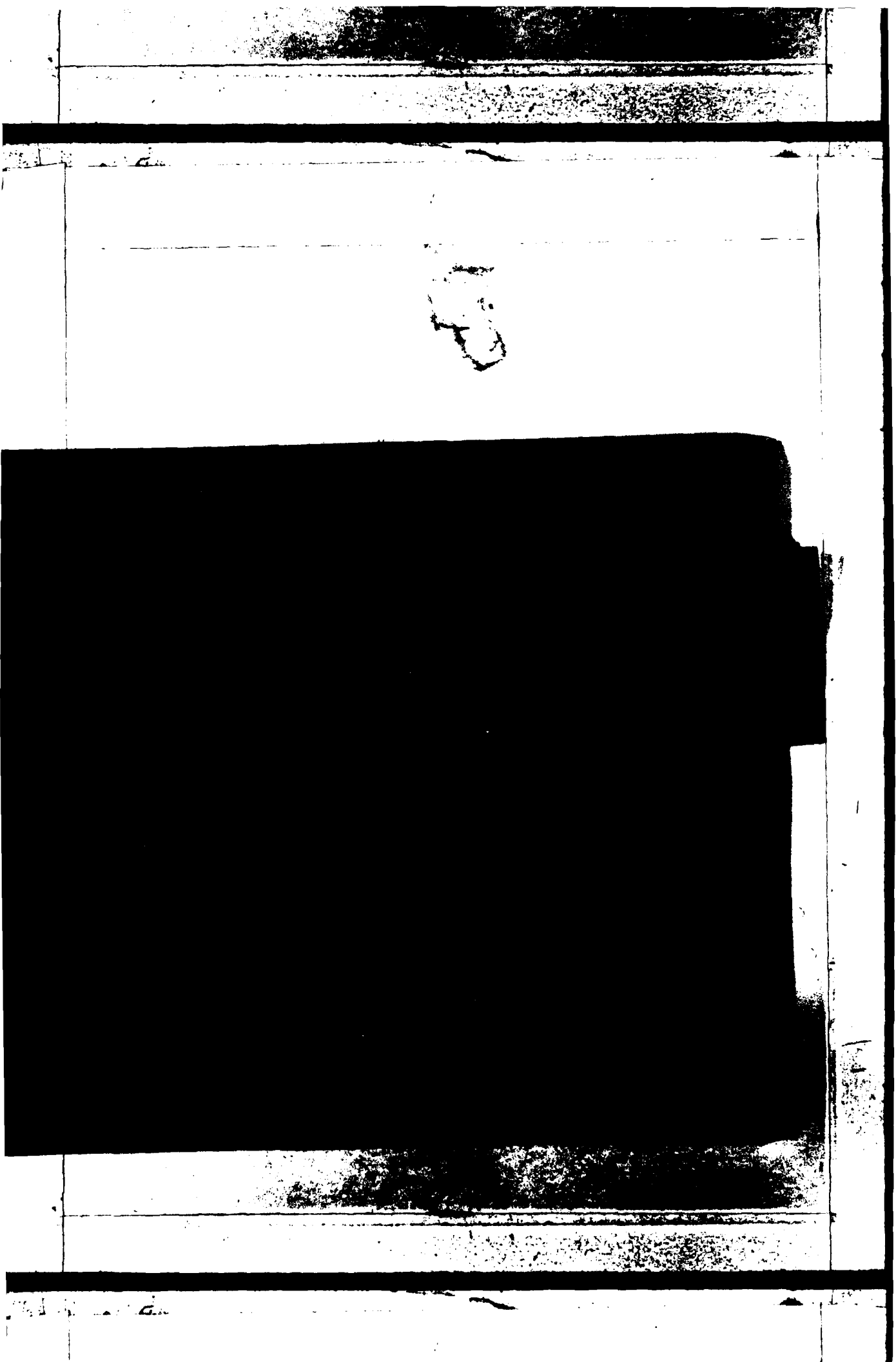
PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 ALL ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	.7	.7						6.9		22.9			72.6
NNE		1.6						.4	12.4	1.2	19.2		.4	72.8
NE	.8	1.1							11.7	.8	21.2			71.2
ENE	.5	.7	.7						11.5	1.4	19.7			72.2
E	1.2	1.7	.4					.2	11.4	1.4	18.4		.5	71.2
ESE	1.4	1.5	.6						12.9	1.8	18.1		.9	72.1
SE	7.9	3.4	1.1						14.7		15.8			63.8
SSE	7.2	9.9	1.8						11.7		14.3			65.0
S	4.9	5.1	2.2					.2	11.1	.3	15.6		.1	68.4
SSW	1.0	1.8	1.0					.1	8.9	.1	22.3			71.5
SW	.4	1.8	.8					.1	7.3	.1	21.4			72.6
WSW	.2	1.5	.6					.1	6.7	.2	22.7			73.3
W	.4	.7	.8					.0	5.4	.2	24.5			72.5
WNW	.2	.7	.3						5.1	.3	24.9			72.3
NW	.7	.4	.3						4.5	.3	23.4			72.9
NNW	.5	.5	1.0				.2	.2	8.0	.5	20.7			74.5
VARIABLE														
CALM	.9	.5	.4						14.0	.7	24.3			67.3
TOTAL	163	237	112				1	10	1437	78	3690		11	12462
% TOTAL	.9	1.4	.6				.0	.1	8.2	.4	22.3		.1	71.5

TOTAL NUMBER OF OBSERVATIONS 17,419

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Asheville, N. C.

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

3335 STATION IMPERIAL BEACH, CALIFORNIA 45-42, 55-81 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.03	.04-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	74.5	6.6	2.1	4.1	2.3	4.0	3.9	1.5	1.0					19.0	775	1.48	5.93	TRACE
FEB	77.4	9.3	1.9	4.3	3.2	3.7	2.6	2.1	.2					16.0	621	1.04	3.09	TRACE
MAR	77.5	5.8	1.5	3.5	4.1	4.0	3.9	1.5	.1					18.7	775	1.19	3.70	TRACE
APR	77.9	8.6	1.4	2.8	2.7	3.5	2.0	1.0	.1					13.5	810	.72	3.22	TRACE
MAY	80.3	12.0	1.2	2.9	1.0	1.0	.1	.1	.1					6.5	806	.18	1.15	.00
JUN	80.4	10.3	.6	1.9	.2	.1	.5							3.3	810	.08	.51	.00
JUL	81.0	7.5	.6	.2	.4		.2							1.4	837	.04	.60	.00
AUG	82.7	5.4	.5	.6		.1		.1	.1					1.4	868	.04	2.10	.00
SEP	82.7	6.5	.1	1.0	.4	.3	.4	.1	.3					2.6	780	.18	2.25	.00
OCT	84.9	5.3	.9	1.9	1.4	1.4	.6	.5						6.8	806	.28	1.72	TRACE
NOV	82.4	4.2	1.5	3.1	1.7	3.1	1.9	1.3	.8					13.3	760	1.06	6.42	.00
DEC	74.5	6.3	.6	3.8	2.4	3.0	2.5	1.6	.2					14.1	806	.96	4.40	TRACE
ANNUAL	81.5	5.6	1.1	2.5	1.7	2.0	1.5	.8	.2					9.9	9474	7.29		

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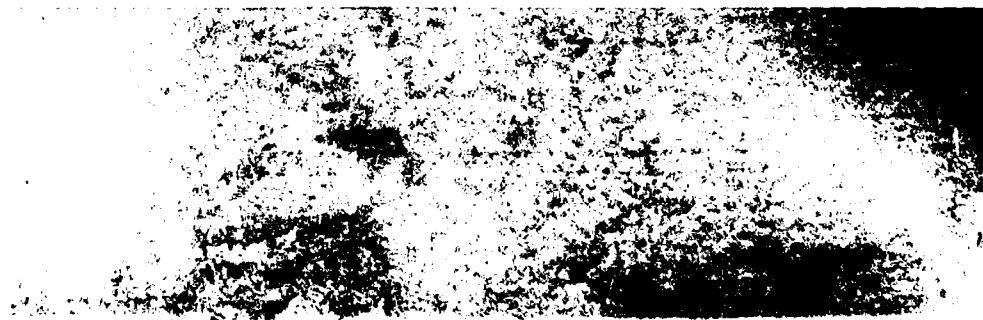
DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-41, 55-91 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														775	.0	.0	.0
FEB	100.0														707	.0	.0	.0
MAR	100.0														744	.0	.0	.0
APR	100.0														840	.0	.0	.0
MAY	100.0														806	.0	.0	.0
JUN	100.0														810	.0	.0	.0
JUL	100.0														837	.0	.0	.0
AUG	100.0														837	.0	.0	.0
SEP	100.0														780	.0	.0	.0
OCT	100.0														806	.0	.0	.0
NOV	100.0														750	.0	.0	.0
DEC	99.0	.1													806	TRACE	TRACE	.0
ANNUAL	100.0	.0													9498	.0	X	X

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DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNG. DEPTH
(FROM DAILY OBSERVATIONS)

STATION 1 IMPERIAL BEACH, CALIFORNIA

47-48, 55-51

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														744			
FEB	100.0														707			
MAR	100.0														744			
APR	100.0														780			
MAY	100.0														775			
JUN	100.0														780			
JUL	100.0														806			
AUG	100.0														775			
SEP	100.0														750			
OCT	100.0														775			
NOV	100.0														750			
DEC	100.0														775			
ANNUAL	100.0														9161			

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

8315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45						TRACE	.50	TRACE	TRACE	TRACE	TRACE	TRACE	
46	TRACE		TRACE	TRACE	.00								
47					TRACE						.00		
48					.00	TRACE	.00	.00					
49												.11	
50													
51	.67	.10	TRACE	.76	.04	TRACE	TRACE	TRACE	.00	.22	.30	.11	.76
52	1.63	.27	.32	.62	.34	.33	TRACE	TRACE	.04	.60	.37	.04	1.63
53	.40	1.04	.71	.62	.53	.00	.00	.04	.34	.03	.17	.05	1.08
54	.20	.89	TRACE	.15	.01	.02	TRACE	TRACE	TRACE	.27	.02	.55	.89
55	1.12	.37	.17	.45	.16	TRACE	TRACE	TRACE	.17	.09	.35	.15	1.12
56	.62	.02	.30	.01	.02	.02	TRACE	.05	TRACE	.01	.40	.74	.74
57	1.01	.50	.20	TRACE	.23	.04	TRACE	TRACE	TRACE	TRACE	.04	.19	1.01
58	.03	.50	.53	.25	TRACE	.43	TRACE	.05	1.12	.12	1.89	TRACE	1.89
59	.67	.14	.47	.25	.07	TRACE	TRACE	TRACE	TRACE	TRACE	.56	.66	.66
60	.12	.37	.55	1.24	TRACE	.02	.06	TRACE	.12	TRACE	1.77	1.42	1.77
61	.63	.81	.10	TRACE	TRACE	.31	.01	.00	TRACE	.54	1.31	.84	1.31
62	1.42	TRACE	.76	.01	.07	.07	.07	.04	TRACE	TRACE	1.06	1.33	1.42
63	.37	.45	1.58	.23	.04	.02	.06	TRACE	.00	.02	.11	.28	1.58
64	1.36	.86	.93	.10	.11	.01	TRACE	.01	TRACE	.02	.51	.19	1.36
65	.31	.70	.97	.11	.04	TRACE	TRACE	TRACE	TRACE	.07	1.59	.70	1.59
66	.21	.66	.08	.47	.21	TRACE	TRACE	TRACE	.05	.23	.05	.41	.66
67	TRACE	.08	.01	.04	.12	.29	TRACE	.01	.10	.24	.62	.98	.98
68	.55	.55	.53	.07	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	.48	.06	.59
69	.43	.01	.73	TRACE	TRACE	.01	.02	TRACE	TRACE	.35	.29	.77	.77
70	.25	.24	.34	.39	.03	.01	.01	TRACE	.00	.12	.53	.28	.53
71	TRACE		.52	.38	.10	TRACE	.01	TRACE	1.12	.27	.80	.48	
72	.91	.09	.52	.02	1.02	.03	.00	1.41	.01	.61	.01		
73				.32		.00		TRACE					
74		.44	.04	.04		.04	TRACE	.01	.00	.37	.35	.04	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

EXTREME VALUES.

5115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-41, 55-82

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-47, 55-82
YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0									PRECIP DAYS
46		TRACE 27											PRECIP DAYS
47	.00 1	0	0	0			.00 1		0	0		0	PRECIP DAYS
48				0									PRECIP DAYS
49	0												PRECIP DAYS
55											.00 16		PRECIP DAYS
76		.00 28											PRECIP DAYS
77												.63 26	PRECIP DAYS
78	.75 29	.61 27	.82 30		.01 28		TRACE 30		.03 27	.03 29	.68 28	1.27 26	PRECIP DAYS
79	2.11 30				.09 28								PRECIP DAYS
80		.72 28											PRECIP DAYS
81		.51 24	1.03 30		TRACE 30	TRACE 26							PRECIP DAYS
82	.10 6	.24 19	1.05 15	.47 10	TRACE 25	.00 6	.00 19	TRACE 18	.00 7	.02 25	.39 9	.56 16	PRECIP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

73115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-62
YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45						.0	.0	.0	.0	.0		.0	
46	.0			.0	.0								
47					.0						.0		
48				.0		.0	.0						
49													
55												.0	
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78				.0	.0	.0	.0	.0	.0	.0	.0	.0	
79												.0	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

23115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82
YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82													
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	TRACE	.00
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	779	767	744	840	806	810	837	837	780	806	750	806	9498

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

33115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-48, 55-62

YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0							.0 29		SNOWFALL DAYS
46		.0 27	.0 30										SNOWFALL DAYS
47	.0 1	0	0	0			.0 1		0	0		0	SNOWFALL DAYS
48					0			.0 2					SNOWFALL DAYS
49	0												SNOWFALL DAYS
55											.0 22		SNOWFALL DAYS
77												.0 29	SNOWFALL DAYS
78	.0 29	TRACE 27	.0 30		.0 28		.0 30		.0 27	.0 29	.0 28	.0 26	SNOWFALL DAYS
79	.0 30												SNOWFALL DAYS
81			.0 30		.0 30	.0 26							SNOWFALL DAYS
82	.0 6	.0 19	TRACE 15	.0 10	.0 25	.0 6	.0 19	.0 18	.0 7	.0 25	.0 9	.0 16	SNOWFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

53115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-48, 55-82

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45													
46													
47													
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
MEAN													
S. D.													
TOTAL OBS.													

SMOS

EXTREME VALUES

<u>23115</u>	<u>IMPERIAL BEACH, CALIFORNIA</u>
STATION	STATION NAME

45-42, 55-82

YEARS

DAILY SNOW DEPTH IN INCHES

[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

23115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-46, 55-62
YEARS

DAILY SNOW DEPTH IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0		0	0	0	0	0	0	0	SNO DPTH DAYS
46	1	1	0	0	0								SNO DPTH DAYS
47	1	0	0	0			1		0	0		0	SNO DPTH DAYS
48				0	0			0					SNO DPTH DAYS
49	0												SNO DPTH DAYS
50											0		SNO DPTH DAYS
51											22		SNO DPTH DAYS
52								0					SNO DPTH DAYS
53								10					SNO DPTH DAYS
54												0	SNO DPTH DAYS
55	29	27	30		28		30		27	29	28	26	SNO DPTH DAYS
56	30												SNO DPTH DAYS
57			10		30	26							SNO DPTH DAYS
58	6	19	15	10	25	6	19	18	7	25	9	16	SNO DPTH DAYS
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

STATION

STATION NAME

YEARS

JANUARY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.11		3 1960			
2	0.18		5 1977			
3	0.20		5 1977			
4	0.43		11 1974			
5	0.23		7 1974			
6	0.91		23 1977			
7	1.63		41 1957			
8	0.44		11 1957			
9	1.08		27 1980			
10	0.56		14 1960			
11	0.67		17 1980			
12	1.18		30 1960			
13	0.85		22 1957			
14	1.36		35 1969			
15	0.54		14 1978			
16	0.45		11 1973			
17	0.28		7 1979			
18	0.59		15 1973			
19	0.18		5 1978			
20	1.01		26 1962			
21	0.60		15 1964			
22	1.42		36 1967			
23	0.03		1 1967			
24	0.57		14 1962			
25	0.36		9 1969			
26	0.68		17 1961			
27	0.63		16 1966			
28	0.47		12 1980			
29	1.87		47 1980			
30	0.53		13 1966			
31	0.11		50 1979			
Monthly	0.11		54 1979			

FEBRUARY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.37		9 1960			
2	0.50		13 1981			
3	0.78		20 1958			
4	1.08		27 1958			
5	0.68		17 1976			
6	0.83		21 1969			
7	0.55		14 1976			
8	0.80		20 1976			
9	0.51		13 1981			
10	0.70		18 1976*			
11	0.58		15 1959	T	T	1978
12	0.16		4 1973			
13	0.48		12 1973			
14	0.25		6 1980			
15	0.23		6 1980			
16	0.64		16 1959			
17	0.66		17 1971			
18	0.55		14 1969			
19	0.72		18 1980			
20	0.28		7 1962			
21	0.89		23 1959			
22	0.86		22 1969			
23	0.27		7 1987			
24	0.22		6 1962			
25	0.32		8 1958			
26	0.22		6 1962			
27	0.61		15 1978			
28	0.48		12 1970			
29	0.14		4 1964			
30						
31						
Monthly	1.08		27 1958	T	T	1978

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

STATION

STATION NAME

YEARS

MARCH
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.97	25	1970			
2	1.00	25	1981			
3	1.00	25	1946			
4	0.35	9	1970			
5	1.03	26	1981			
6	0.87	22	1980			
7	0.49	12	1974			
8	1.58	40	1968			
9	0.19	5	1968			
10	0.74	19	1980			
11	0.58	15	1973			
12	0.81	21	1978			
13	0.43	11	1969			
14	0.23	6	1975			
15	0.55	14	1965			
16	0.59	15	1958			
17	1.05	27	1982			
18	0.45	11	1982	T	T	1982
19	0.45	11	1946			
20	0.46	12	1979			
21	0.44	11	1979			
22	0.46	12	1980			
23	0.47	12	1964			
24	0.17	4	1958			
25	0.48	12	1977			
26	0.31	8	1980			
27	0.36	9	1958			
28	0.32	8	1979			
29	0.16	4	1982			
30	0.16	4	1946			
31	0.82	21	1978			
Monthly	1.58	40	1968	T	T	1982

APRIL
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.52	13	1956			
2	0.19	5	1978			
3	0.62	16	1958			
4	0.35	9	1958			
5	0.08	2	1965			
6	0.33	8	1975			
7	0.62	16	1958			
8	1.24	31	1965			
9	0.41	10	1965			
10	0.06	2	1965			
11	0.81	21	1967			
12	0.76	19	1956			
13	0.66	17	1956			
14	0.17	4	1971			
15	0.20	5	1976			
16	0.09	2	1975*			
17	0.12	3	1963			
18	0.42	11	1971			
19	0.29	7	1967			
20	0.62	16	1957			
21	0.12	3	1967*			
22	0.42	11	1967			
23	0.12	3	1980			
24	0.07	2	1967			
25	0.14	4	1959			
26	0.25	6	1963			
27	0.45	11	1960			
28	0.38	10	1980			
29	0.23	6	1980			
30	0.07	2	1973			
31						
Monthly	1.24	31	1965			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

STATION

STATION NAME

YEARS

MAY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.00	2	1980			
2	0.02	1	1980*			
3	0.15	4	1960			
4	0.06	2	1969			
5	0.04	1	1964			
6	0.21	5	1971			
7	0.19	5	1971			
8	0.02	26	1977			
9	0.09	2	1956			
10	0.07	2	1957			
11	0.53	13	1958			
12	0.05	1	1977			
13	T	T	1980*			
14	0.04	1	1957			
15	T	T	1974*			
16	0.13	3	1962			
17	T	T	1973*			
18	T	T	1973*			
19	0.07	2	1957			
20	0.12	3	1972			
21	0.16	4	1957			
22	T	T	1980			
23	0.05	1	1967			
24	T	T	1982*			
25	0.01		1967*			
26	0.23	6	1962			
27	0.05	1	1962			
28	0.04	1	1971			
29	0.01		1971			
30	0.01		1962			
31	T	T	1974*			
Monthly	1.02	26	1977			

JUNE
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1979*			
2	0.04	1	1979			
3	0.02	1	1965			
4	T	T	1979*			
5	0.03	1	1977			
6	T	T	1979*			
7	0.02	1	1968*			
8	0.03	1	1957			
9	0.11	3	1957			
10	0.33	8	1957			
11	0.43	11	1963			
12	0.03	1	1967*			
13	0.07	2	1967			
14	T	T	1969*			
15	0.04	1	1962			
16	T	T	1975*			
17	T	T	1980*			
18	0.01		1975			
19	0.31	8	1966			
20	0.29	7	1972			
21	T	T	1972*			
22	0.02	1	1972			
23	T	T	1968			
24	T	T	1974*			
25	T	T	1971*			
26	T	T	1968*			
27	T	T	1969*			
28	0.02	1	1959			
29	T	T	1979*			
30	T	T	1972*			
31						
Monthly	0.43	11	1963			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1987

STATION

STATION NAME

YEARS

JULY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.30	8	1945			
2	T	T	1970*			
3	T	T	1980*			
4	0.50	13	1945			
5	T	T	1968			
6	0.03	1	1968			
7	T	T	1973*			
8	0.01		1966			
9	T	T	1967*			
10	T	T	1970			
11	T	T	1969			
12	T	T	1975*			
13	T	T	1976			
14	0.01		1974			
15	T	T	1981*			
16	T	T	1976*			
17	T	T	1976			
18	T	T	1966*			
19	T	T	1963			
20	T	T	1979*			
21	T	T	1972*			
22	T	T	1976*			
23	T	T	1975*			
24	T	T	1956			
25	0.01		1976			
26	0.07	2	1967			
27	T	T	1969*			
28	0.06	2	1968			
29	0.06	2	1965			
30	T	T	1976			
31	T	T	1978*			
Monthly	0.50	13	1945			

AUGUST
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1977*			
2	T	T	1971			
3	T	T	1969			
4	0.05	1	1961			
5	T	T	1969			
6	T	T	1972*			
7	T	T	1967*			
8	0.05	1	1963			
9	T	T	1975*			
10	0.01		1969			
11	T	T	1975			
12						
13	0.01		1979			
14	0.04	1	1958			
15	0.17	4	1977			
16	1.41	36	1977			
17	0.51	13	1977			
18	0.03	1	1961			
19	0.01		1977			
20	T	T	1973			
21						
22						
23	T	T	1982			
24	T	T	1982*			
25	T	T	1982*			
26						
27						
28						
29	0.01		1972			
30	T	T	1976			
31	0.04	1	1967			
Monthly	1.41	36	1977			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

STATION

STATION NAME

YEARS

SEPTEMBER MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1960			
2	T	T	1976*			
3	0.03	1	1976			
4	1.12	28	1963			
5	T	T	1978*			
6	0.06	2	1972			
7	0.06	2	1975			
8	0.02	1	1972			
9	0.33	8	1976			
10	1.12	28	1976			
11						
12	T	T	1963*			
13	T	T	1975*			
14	T	T	1969*			
15	T	T	1971*			
16	T	T	1965*			
17	0.58	15	1963			
18	0.50	13	1963			
19	0.05	1	1963			
20	T	T	1969			
21	T	T	1973*			
22	T	T	1973			
23	T	T	1958			
24	0.34	9	1958			
25	T	T	1970*			
26	0.01		1977			
27	T	T	1966*			
28	T	T	1967*			
29	0.05	1	1971			
30	0.02	1	1981			
31						
Monthly	1.12	28	1976*			

OCTOBER MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.27	7	1959			
2	0.02	1	1976			
3	0.07	2	1970			
4	T	T	1966*			
5	0.17	4	1977			
6	0.61	15	1977			
7	0.04	1	1975			
8	0.04	1	1960			
9	0.09	2	1960			
10	0.54	14	1966			
11	0.24	6	1957			
12	0.12	3	1975			
13	0.27	7	1957			
14	0.53	13	1957			
15	0.01		1957			
16	0.19	5	1971			
17	0.24	6	1972			
18	0.23	6	1972			
19	0.10	3	1972			
20	0.37	9	1979			
21	0.27	7	1976			
22	0.07	2	1976			
23	0.03	1	1960*			
24	0.03	1	1978			
25	T	T	1982			
26	0.19	5	1980			
27	0.03	1	1958			
28	0.35	9	1974			
29	0.13	3	1974			
30	0.60	15	1957			
31	0.01		1957			
Monthly	0.61	15	1977			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1982

STATION

STATION NAME

YEARS

NOVEMBER
MONTH

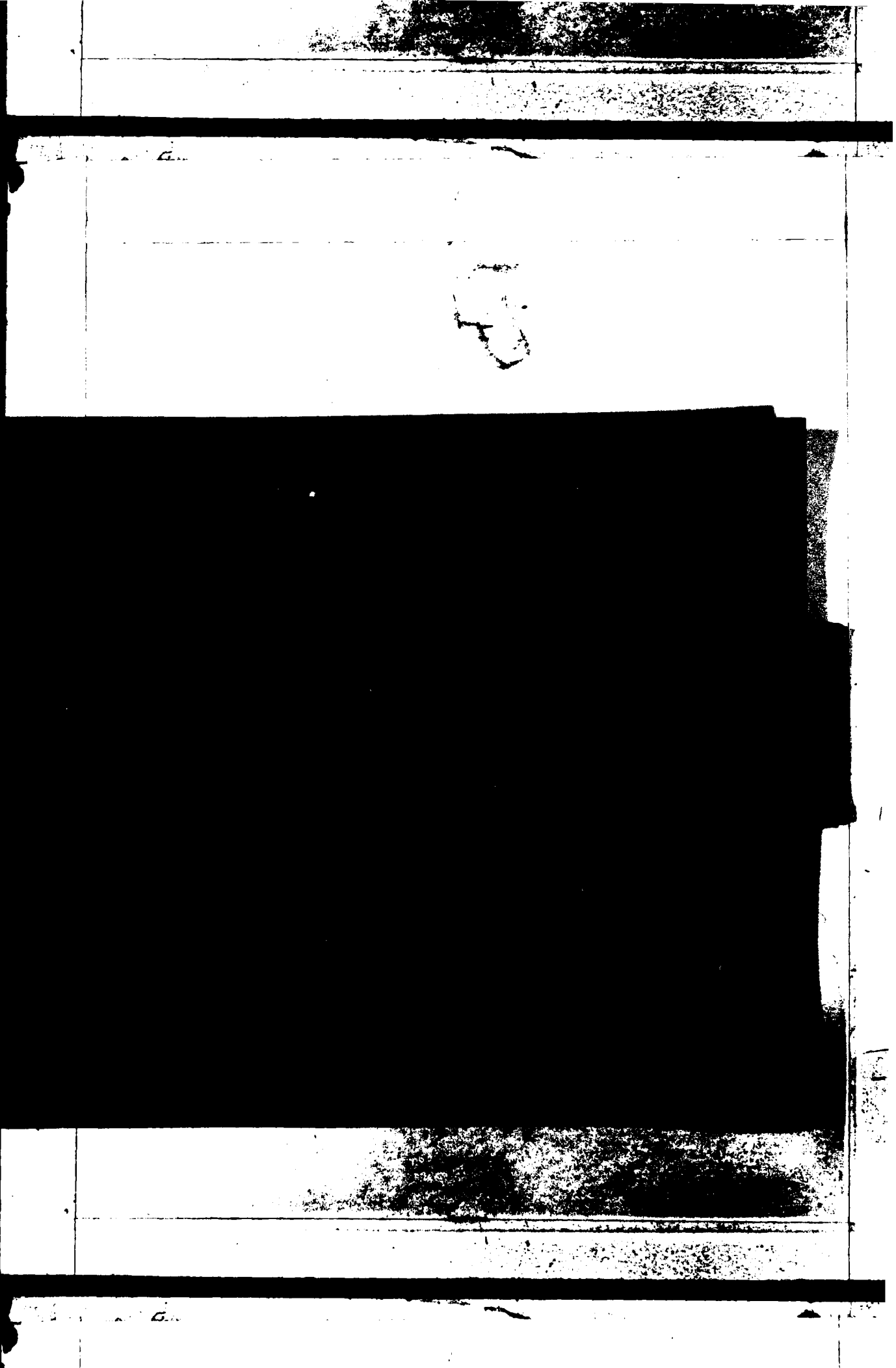
DECEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.20		7 1974			
2	7.33		8 1957			
3	0.16		4 1960			
4	0.07		2 1979			
5	0.15		4 1960			
6	0.51		13 1969			
7	1.31		33 1966			
8	0.17		4 1972			
9	0.28		7 1964			
10	0.14		4 1958			
11	0.62		16 1972			
12	0.60		20 1976			
13	0.25		6 1960			
14	0.34		9 1965			
15	1.73		44 1965			
16	0.48		25 1965			
17	0.66		17 1964			
18	0.52		13 1965			
19	0.47		12 1967			
20	1.89		48 1963			
21	1.08		27 1967			
22	1.77		45 1965			
23	0.68		17 1965			
24	0.68		17 1978			
25	0.40		10 1961			
26	0.75		19 1967			
27	0.50		13 1975			
28	0.53		13 1975			
29	1.50		38 1970			
30	0.39		10 1982			
31						
Monthly	1.89		48 1963			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.10		3 1978			
2	0.74		19 1961			
3	0.56		14 1966			
4	0.98		25 1972			
5	0.45		22 1966			
6	0.77		20 1966			
7	0.35		9 1972			
8	0.30		8 1972			
9	1.42		36 1965			
10	0.09		2 1972			
11	0.03		1 1968*			
12	0.28		7 1975			
13	0.21		5 1965	T	T	1967
14	0.62		16 1961			
15	0.32		8 1965			
16	0.52		13 1965			
17	1.27		32 1978			
18	1.33		34 1967			
19	0.69		18 1970			
20	0.08		2 1967			
21	0.70		18 1970			
22	0.34		9 1965			
23	0.02		1 1964			
24	0.55		14 1959			
25	0.28		7 1968			
26	0.27		7 1971			
27	0.66		17 1964			
28	0.63		16 1977			
29	0.49		12 1965			
30	0.35		9 1976			
31	0.48		12 1976			
Monthly	1.42		36 1965	T	T	1967

* ALSO ON EARLIER YEARS
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NOCD, Federal Building
Asheville, N. C.

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-46, 48, 55-82
YEARS

DAILY PEAK GUSTS IN KNOTS (MPH 1949-1955)

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS	
45							SSW 20				WNW 18			
46			WNW 44WSW 30											
47														
48				S 28W 22			WSW 22WNW 18							
49														
55														
56	E 29S	37W	24W	43S	25WNW 26W	20S	29S	30W	23E	38E	32	W 43		
57	E 39S	31W	29W	32W	24S	24S	27SE	21NE	30SSW 27E	46S	40	E 46		
58	E 31S	34S	36WSW	48S	24SW	19NW	20NNW	21SSW	22SE	29W	51NE	34	W 51	
59	SSW 48S	38E	36S	25W	24S	22SW	26SW	26E	28NE	29SE	37SW	39	SSW 48	
60	NW 34NW	34NW	22NW	34SW	26SW	26SW	22NNW	18NNW	18WSW	24NW	38SE	35	NW 38	
61	SE 34SE	24NE	32SW	23NW	21SW	22SW	26SW	24WSW	19SE	33SE	38SSW	30	SE 38	
62	SE 42WNW	36NW	36SW	25WSW	26SW	27	SSW 22NW	16W	18SSW	18E	26			
63	E 32S	30S	33W	32SSW	11S	22S	17W	17SE	24NW	16W	29ESE	34	ESE 34	
64	E 27WSW	35NW	29WNW	22W	22S	21W	16S	22SSW	20E	26SSW	31S	22	WSW 35	
65	ESW 26W	22ESE	24SW	29S	22S	21W	16SSW	19SW	21E	29S	27W	32	W 32	
66	W 30W	28W	33S	26W	16SW	17W	17SW	16SW	17E	24S	31S	25	W 33	
67	S 29E	20S	24NW	32NW	18NW	20SW	19S	20S	25E	26SE	30SE	30	NW 32	
68	E 30SW	34S	31SW	29S	23W	20NW	18SW	17NW	21SW	20NW	28NW	29	SW 34	
69	S 33S	33W	28W	20W	20S	17SW	17W	18NW	18S	21E	33NW	22	S 33	
70	E 35SE	36S	24W	23S	14S	21SW	20S	16E	25E	32SE	35SE	29	SE 36	
71	W 33W	21W	2128	2419	2321	1821	1821	1921	1928	4108	3126	30	28 41	
72	10	3512	3721	2234	2320	2419	1819	2116	1803	2824	3731	27	24 37	
73	28	2724	3124	2909	2833	2020	1821	1921	2422	2020	1609	2312	29	24 31
74	17	4409	2824	3331	2129	2112	2030	1720	1821	1729	2511	2521	32	17 44
75	09	2415	1918	2615	2524	2424	1821	1920	2210	2315	2929	4315	29	29 43
76	11	3517	3329	3729	3423	1817	2124	1820	1818	1929	1930	3120	28	29 37
77	07	2530	2628	2623	1917	3124	1821	2318	2632	1822	1727	16		
78	17	34	18	4027	2730	1829	1920	1821	1916	3820	3227	33		
79	10	3411	2818	3027	1820	1915	2721	1921	1713	24		26 21		
MEAN														
S. D.														
TOTAL OBS.														

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

3115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-46, 48, 55-82 YEARS

DAILY PEAK GUSTS IN KNOTS (NPH 1940-1988)
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0		0		0	0	0		0	WINDS DAYS
46	0	0			0								WINDS DAYS
47	0	0	0	0	0		0		0	0	0	0	WINDS DAYS
48						0							WINDS DAYS
49	0												WINDS DAYS
55											0	5	32 10 WINDS DAYS
62							N 18 24						WINDS DAYS
77												10 44 25	WINDS DAYS
78		16 40 24										26 26 25	WINDS DAYS
79										31 16 19 15 18			WINDS DAYS
81						19 27 26							WINDS DAYS
82	25 24 16 34 15 34 18 35 21 1 26 16 28 16 28 17 29 17 20 19 28 41 27 32 A 19 15 9 25 6 19 18 7 22 9 15												WINDS DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115

IMPERIAL BEACH, CALIFORNIA

73

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

01

DOYR (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE		25.0										25.0	4.0
E		25.0										25.0	6.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W				50.0								50.0	12.0
WNW													
NW													
NNW													
VARB													
CALM												0.0	
		50.0		50.0								100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

4

3MOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

JAN
MONTH

ALL WEATHER
CLASS

C4
NUMBER (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E		40.0	20.0									60.0	5.7
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W			20.0									20.0	10.0
WNW				20.0								20.0	14.0
NW													
NNW													
VARS													
CALM												0.0	
		40.0	40.0	20.0								100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 5

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-02
YEARS

JAN
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5			.4								1.9	3.8
NNE	1.3	1.5	.7									1.5	3.9
NE	2.6	4.1										6.7	3.9
ENE	3.3	6.3	1.5	.4								11.5	4.8
E	4.1	16.7	15.6	.7	.4	.4						37.9	6.6
ESE	1.9	1.5	1.9	.7								5.9	6.0
SE	1.5	1.9	1.5	.7								5.6	6.3
SSE	.4	.4		.7								1.5	7.5
S		1.1	1.1	.4	.4							3.0	8.5
SSW			.7									.7	7.5
SW	.4		.4	.4								1.1	6.7
WSW		.7	.4	.7								1.9	8.8
W	.7	.7	1.1	1.1								3.7	8.0
WNW	.4	1.1	.4	.7								2.6	7.0
NW	.4	.4	.7									1.5	5.5
NNW	.4	.4										.7	3.5
VARB.													
CALM												8.2	
	20.8	36.8	26.0	7.1	.7	.4						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

269

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

43115

IMPERIAL BEACH, CALIFORNIA

73-R2

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

10

CLASS

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.2	.7									4.6	5.1
NNE	3.2	2.1										5.6	3.5
NE	1.1	.4										1.4	3.0
NNE	1.4	3.9	.4									6.0	4.2
E	4.9	9.2	7.0	2.5	.7	.4						24.6	7.0
ESE	1.1	2.5	2.5	1.1	.4	.4						7.7	8.5
SE		.7	.7									1.4	6.8
SSE	.4	1.1		1.1	.7							3.2	11.0
S	2.1	2.4	3.5	1.1								9.4	6.8
SSW	1.1	2.5	1.1									5.3	4.9
SW	.4	.7										1.1	3.7
WSW	1.5	2.5	1.4	.7								6.3	5.7
W	2.1	.7	.7	.7								4.2	6.0
WNW	1.4	.7	1.4	.4								3.9	6.3
NW	.7	.7										1.4	3.8
NNW	1.4	.7	.4	.4								3.2	5.1
VARB.													
CALM												10.6	
	25.4	34.2	19.7	7.7	1.8	.7						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

284

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 JAN 13
MONTH 13
HOURS (L.S.T.)
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4		.7									1.1	6.3
NNE		.4										.4	4.0
NE													
ENE					.4							.4	20.0
E			1.1			.4						1.4	12.5
ESE		.4		.7	1.4	.4						2.8	16.0
SE		.4		.7								1.1	11.0
SSE	.4	.7	.4	1.1	.4							2.8	10.1
S	.4	.7	2.1	3.9	.4							7.4	11.4
SSW		2.5	6.0									8.5	7.5
SW	1.1	2.9	3.2									7.0	6.1
WSW	1.1	5.3	2.5	1.4								10.2	6.7
W	1.0	12.0	9.2	1.4	.7							25.0	6.8
WNW	1.4	6.7	6.0	1.4								15.5	6.6
NW	1.1	5.3	5.3	.7								12.3	6.7
NNW		2.5	.4	.7								3.5	6.5
VARBL													
CALM												.7	
	7.4	39.4	36.6	12.0	3.2	.7						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 284

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4	1.0									2.1	8.5
NNE	.4	.4										.7	3.5
NE													
ENE		.4		.4								.7	10.0
E		.4	1.1	.4	.4							2.1	10.5
ESE		.4	1.1		.7							2.1	11.5
SE			.4									.4	8.0
SSE		.4	.7	.7	.4							2.1	12.2
S	.7	1.2	4.3	1.8	.4							8.9	9.9
SSW	.4	2.2	3.6	.4								7.5	6.4
SW	1.4	4.3	2.1	.4								8.2	5.7
WSW	3.2	4.3	.4		.4							8.2	4.6
W	3.0	12.1	3.0	1.1								21.1	5.7
WNW	2.0	2.3	4.6	1.4								18.2	6.1
NW	2.1	5.4	5.4									12.0	5.9
NNW	1.1	2.1	.4									3.6	4.3
VARB.													
CALM												1.1	
	16.1	44.9	29.6	6.4	2.1							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 280

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1116 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-92 MONTH JAN
CLASS ALL WEATHER HOURS 19
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3		.9								5.2	4.6
NNE	1.7	.4										1.7	2.8
NE	.3	1.3										2.1	3.0
ENE	1.3	.7										2.1	3.4
E	1.7	1.7	2.1	1.3								8.2	6.1
ESE	2.1	.7	1.3									4.7	4.7
SE	1.7	.7		.4								3.0	4.9
SSE	1.3	.4	2.1		.9							4.7	6.1
S	2.6	1.3	.7	1.3	.4							6.4	6.7
SSW	1.7	1.3										4.3	2.9
SW	.4	1.3	.7									2.7	5.2
WSW	1.7	1.7	.9		.4							4.7	6.2
W	1.3	.7	.9	1.3								4.3	7.4
WNW	2.6		.7	.9								4.3	5.8
NW	2.1	2.1	.4									4.7	3.8
NNW	2.6	3.0										5.6	3.8
VARBL													
CALM												72.2	
	10.5	19.3	10.3	6.0	1.7							100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 273

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-74, 78, 80-82

CLASS ALL WEATHER

CONDITION

JAN NORTH 22 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0	1.0									3.8	6.8
NNE		1.0										1.9	4.5
NE	2.5	.9										3.0	3.3
ENE	1.0	1.0										3.8	3.5
E	5.5	4.4	1.0	.9								20.4	4.5
ESE	1.0											1.9	2.5
SE		6.6			.9							7.5	6.9
SSE	.9	.9	2.0									4.7	5.0
S	.9	1.0	2.0	1.9	1.9							9.4	10.2
SSW	1.0	.9										2.4	3.3
SW	.9			.9								1.9	9.0
WSW													
W	.9			1.0								2.9	8.7
WNW			.9									.9	9.0
NW			.9									.9	8.0
NNW	1.0											1.9	2.5
VARBL													
CALM												31.1	
	22.6	26.4	11.3	5.7	2.8							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 106

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JAN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	.0	.2								2.9	5.6
NNE	1.0	1.0	.1									2.7	3.6
NE	1.0	1.1										2.1	3.5
ENE	1.0	2.3	.3	.1	.1							4.2	4.8
E	2.0	6.1	5.2	1.0	.3	.2						15.5	6.7
ESE	1.0	1.0	1.2	.5	.5	.1						4.4	8.3
SE	.5	1.2	.5	.3	.1							2.6	6.6
SSE	.5	.6	.8	.7	.4							2.9	9.3
S	1.1	1.1	2.5	1.7	.4							7.2	8.6
SSW	1.0	1.8	2.2	.1								5.1	5.9
SW	.8	1.7	1.2	.2								3.9	5.9
WSW	1.4	2.7	1.0	.5	.1							5.8	6.0
W	1.0	5.1	3.1	1.3	.1							11.5	6.6
WNW	1.5	3.4	2.6	1.0								8.5	6.4
NW	1.2	2.5	2.3	.1								6.2	5.9
NNW	1.2	1.6	.2	.2								3.1	4.7
VARBL													
CALM												11.3	
	19.7	34.8	24.0	7.9	2.0	.3						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1465

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

FEB
MONTH

ALL WEATHER
CLASS

06
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E			100.0									100.0	8.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
			100.0									100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION
43115

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
73-82

MONTH
FEB

CLASS
ALL WEATHER

DAY
07

HOWES (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2											.9	2.0
NNE	4.1	2.5										6.6	3.5
NE	4.0	2.1	.8									7.8	3.6
NNE	3.7	9.1	2.5									15.2	5.0
E	5.3	18.5	11.9	1.2								37.7	6.0
ESE	.4	2.1	1.2									3.7	5.4
SE	.2	1.2	.5	.8								3.7	7.0
SSE	.4	.4	.4	.8								2.1	7.6
S	1.2	.4	1.2	.8								4.1	6.6
SSW	.4	.4	.4									1.2	5.0
SW	.4	.4	.4									1.2	4.3
WSW		.2	.4									1.2	7.0
W		2.1	.2	.4								3.3	6.6
WNW	.4	.4	2.1									2.9	6.4
NW	.2											.8	3.0
NNW		.2										.8	5.0
VARIABLE													
CALM												7.4	
	23.9	41.6	23.0	4.1								100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 243

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.4	1.9	.8									7.3	3.4
NNE	3.4	2.7	.4									6.5	3.4
NE	1.5	2.3										3.8	3.8
ENE	2.3	2.3	.8									5.4	4.3
E	3.4	7.7	1.9	1.1	.4							14.6	5.8
ESE	1.1	3.1	.4	1.9	.8							7.3	8.2
SE	.4		1.1									1.5	6.8
SSE	.4	.4	.8	.4	.4							2.3	9.8
S	.4	1.1	1.9	1.9	.4							5.7	9.4
SSW	.8	1.5	1.9	.4								4.6	6.3
SW	.8	3.1	.4									4.2	4.7
WSW	1.1	1.9	.4									3.8	4.8
W	2.3	4.2	.8	.4								7.7	4.9
WNW	2.3	3.4	1.9									7.7	5.0
NW	1.5	1.9	.8	.4								4.6	5.2
NNW	1.9	2.3	.4	.4								5.4	5.1
VARBL													
CALM												7.7	
	28.4	39.8	15.3	6.9	1.9							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

261

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.5									.8	9.0
NNE		.8										.8	5.0
NE													
NNE													
E		.9		.4								1.1	7.7
ESE		.4		1.1	.8							2.3	14.3
SE	.4											.4	2.0
SSE		.4	.2	.8		.4						2.3	12.3
S		1.5	3.4	2.7								7.7	9.7
SSW		1.9	2.3	1.5								5.7	8.4
SW		1.1	2.3	.8	.4							4.6	9.2
WSW	1.1	5.7	4.2	.4								11.5	6.4
W	.8	11.1	14.9	2.3								29.1	7.2
WNW		5.0	15.7	1.5								22.2	7.9
NW	.4	1.9	4.6	1.5								8.4	8.1
NNW		.8	1.5	.4								2.7	8.3
VARBL													
CALM												.4	
	2.7	31.4	50.6	13.4	1.1	.4						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

261

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEAR 73-82 MONTH FEB
CLASS ALL WEATHER HOURS (L.S.T.) 16
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4		1.2	.8								2.0	8.6
NNE			.8									.8	8.5
NE		.4										.4	4.0
ENE													
E		.4		.4								.8	9.5
ESE				.4								.4	14.0
SE		.4	.4	.4	.4							1.6	11.5
SSE			.4	.8	.4							1.6	14.0
S	.4	2.0	3.5	2.3								8.2	8.8
SSW	.8	1.6	1.2									3.5	5.6
SW	.8	5.1	.8	.4								7.0	5.6
WSW	2.7	5.1	2.3	.4								10.5	5.3
W	2.0	10.2	9.0	1.6								22.7	6.6
WNW	2.3	5.3	12.9	1.2								22.7	7.1
NW	.8	4.7	5.9	.8								12.1	7.0
NNW	.4	.8	3.5	.4								5.1	7.4
VARB													
CALM												.8	
	10.5	36.7	41.8	9.4	.8							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 256

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 9715 IMPERIAL BEACH, CALIFORNIA 73-92 YEARS FEB
STATION NAME MONTH
ALL WEATHER CLASS 19
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.4										2.8	3.3
NNE			.5									.5	7.0
NE	.5	.5										.9	3.0
NNE	.5	.5	.5									1.4	5.0
E	1.4	.5		.5								2.3	4.6
ESE	.5	1.4	.9		.5							3.3	7.7
SE			.9	.5								1.4	4.7
SSE	1.4	.5	.5	.5	.5	.5						3.7	9.3
S	3.3	2.8	1.9	.5	.5							8.8	5.7
SSW	.9	1.4	.9	.5								3.7	6.9
SW	1.9	.5		.9								3.3	6.1
WSW	.5	.9	.5									1.9	4.8
W	5.1	1.4										6.5	2.9
WNW	.9	3.3	2.3									6.5	5.8
NW	7.0	7.0	2.3									16.3	4.1
NNW	1.9	2.8	.5									5.1	4.1
VARB.													
CALM												31.6	
	27.0	24.7	11.6	3.3	1.4	.5						100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 215

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78, 80-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	4.2										6.3	3.8
NNE	1.1											1.1	2.0
NE	1.1	1.1										2.1	4.0
ENE	1.1	3.2										4.2	4.8
E	4.2	11.6	2.1	1.1								18.9	5.2
ESE	1.1			1.1								2.1	7.0
SE	3.2		2.1	1.1								6.3	6.7
SSE	2.1	2.1										4.2	3.3
S	2.1	2.1		3.2	1.1							8.4	9.1
SSW					1.1							1.1	20.0
SW	2.1			1.1								3.2	5.7
WSW													
W			1.1	1.1								2.1	9.5
WNW	2.1			1.1								3.2	5.7
NW		1.1										1.1	4.0
NNW	1.1		1.1									2.1	6.0
VARBL													
CALM												33.7	
	21.2	25.3	6.3	9.5	2.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

95

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.9	.5	.1								3.0	4.3
NNE	1.5	1.1	.3									2.9	3.8
NE	1.4	1.1	.2									2.6	3.6
ENE	1.3	2.4	.7									4.4	4.9
E	2.2	5.0	2.8	.8	.1							11.8	5.9
ESE	.5	1.3	.5	.8	.4							3.3	8.5
SE	.7	.3	.2	.4	.1							2.0	7.7
SSE	.5	.5	.5	.6	.2	.2						2.5	9.5
S	1.1	1.7	2.3	1.8	.2							7.0	8.2
SSW	.5	1.3	1.3	.5	.1							3.6	7.1
SW	.5	2.0	.8	.5	.1							4.1	6.2
WSW	1.1	2.8	1.6	.2								5.6	5.7
W	1.2	5.6	5.0	1.0								13.4	6.4
WNW	1.3	3.5	6.7	.6								12.7	6.9
NW	1.5	2.9	2.6	.5								7.7	6.0
NNW	.8	1.4	1.3	.2								3.7	6.0
VARB.													
CALM												10.6	
	18.1	34.4	27.6	7.7	1.1	.2						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1332

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH MAR
CLASS ALL WEATHER MONTH 07
CONDITION _____
HOUSE (L.S.T.) _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.1	.4									1.6	5.4
NNE	2.5	1.1										3.6	2.9
NE	2.5	2.5										5.1	3.8
ENE	2.5	4.7	1.1		.4							8.7	5.2
E	5.1	16.4	13.1	.7								35.3	5.8
ESE	1.9	4.7	2.2	1.5								9.5	6.5
SE	1.9	1.1	.4									2.9	4.0
SSE	1.9	.7	.7	.4								3.6	5.4
S	.7	1.1	2.2		.4							4.4	7.3
SSW	.4	1.5	1.1									2.9	6.1
SW	.4	.4	.7									1.5	6.5
WSW	1.9	1.1	2.2									4.7	5.8
W	.4	1.9	1.9	1.1								5.1	7.4
WNW		1.1	.7	.4	.4							2.5	9.6
NW		.7										.7	5.5
NNW	.7	.4										1.1	3.3
VARBL													
CALM												6.5	
	22.2	39.6	26.5	4.0	1.1							170.0	5.4

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

DATE

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.7										1.7	3.8
NNE	.3	.7										1.0	3.7
NE	.7											.7	2.0
NNE	.7		.3									1.0	4.0
E	1.0	1.0	.7	.7								3.4	6.4
ESE	.3	.3	.7	.3	.3							2.1	4.5
SE	.3	.3										.7	3.5
SSE	.3	.3	.7	.3	.3	.3						2.4	11.1
S	.7	2.1	3.1	4.5								10.3	9.4
SSW	.7	3.8	3.8	1.7								9.9	7.6
SW	.7	4.8	3.1	.3								8.9	5.8
WSW	1.4	4.5	2.4	1.4								9.6	6.5
W	2.7	9.9	4.5	1.4		.3						18.8	6.3
WNW	.3	8.2	2.7		.3							11.5	6.3
NW	.3	5.5	2.4	.3								8.6	6.3
NNW	.7	4.8	1.7									7.2	6.0
VARBL													
CALM												2.1	
	12.3	46.0	26.0	11.0	1.0	.7						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

292

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-92 YEARS 1973-1974 MONTH MAR

CLASS ALL WEATHER

CONDITION 13

HOURS (L.S.T.) 13

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E					.3							.7	20.0
ESE													
SE			.7									.3	8.0
SSE				.3		.7						1.0	21.3
S	.3	1.0	2.1	4.1	.3							7.9	10.5
SSW	.3	.7	3.8	2.7								7.5	9.5
SW		1.7	5.1	1.4	.3							8.5	8.9
WSW	.3	4.5	7.5	2.1								14.4	8.2
W	1.0	5.0	19.9	7.5	.3							34.6	8.8
WNW		.7	10.3	5.5								16.4	9.6
NW		.7	3.4	3.1								7.2	9.6
NNW		.3	1.4									1.7	8.4
VARBL													
CALM												.7	
	2.1	15.4	53.8	26.7	1.4	.7						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 292

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0315 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MAG 40
NORTH
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4	.4									1.1	4.7
NNE													
NE													
ENE		.4										.4	5.0
E				.4								.4	16.0
ESE					.4							.4	12.0
SE				.4								.4	12.0
SSE		.4		.7								1.1	12.0
S		.4	2.5	1.4	1.1							5.3	11.3
SSW		2.1	4.2	1.8								8.1	9.7
SW	.4	2.2	4.6									8.1	6.8
WSW	.7	2.9	6.7	1.1								11.7	7.4
W	1.5	7.4	20.5	2.1	.7							32.5	7.8
WNW		1.3	8.8	3.2	.4							17.7	8.3
NW	.4	1.1	6.7	1.8								9.9	9.0
NNW		.7	2.1	.4								3.2	7.8
VARBL													
CALM												.4	
	7.5	25.1	55.8	13.1	2.1							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 283

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1315 IMPERIAL BEACH, CALIFORNIA 73-42 YEARS 19
STATION NAME MONTH HOURS (L.S.T.)
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2										2.4	4.3
NNE	.4											.4	2.0
NE	.4											.4	2.0
ENE	.4											.4	2.0
E	.4		.4									1.2	4.0
ESE	.4	.4			.4							1.6	4.0
SE	.4	.4										.4	4.0
SSE	.4	1.2		.4								2.4	5.0
S	.4	2.8	1.2	.4								8.9	5.2
SSW	.4	1.6	2.8	.4								6.9	5.7
SW	.4	1.2	.4									4.0	4.2
WSW	1.2	2.8	.4	1.2								5.6	6.1
W	5.9	5.2	4.0	1.2	2.0							21.4	6.0
WNW	3.2	7.7	1.2	.4								12.0	4.6
NW	3.6	5.6	2.0									11.3	4.8
NNW	1.2	2.0	.4	.4								4.0	5.2
VARBL													
CALM												14.5	
	31.0	33.5	13.3	5.2	2.4							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 248

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

07114
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78-82
YEARS

MAG
NORTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0											3.0	2.2
NNE	2.3	.3										3.1	3.0
NE	.5											.5	2.0
ENE	1.5	2.3										3.8	3.4
E	6.1	3.1	.0	1.5								11.5	4.7
ESE	1.5	1.5										3.1	3.8
SE	2.3	.0										3.1	2.8
SSE	2.3	1.5										3.8	3.0
S	1.5	.5	.0	1.5								4.0	7.7
SSW	.5	1.5	1.5									3.8	5.8
SW		3.0	.0	.0								5.3	6.1
WSW	.0	3.0	1.5	.8								6.9	5.9
W	1.5	2.3	.0	2.3								6.9	8.1
WNW	3.1	2.3	1.5									6.9	4.6
NW	.0	2.3										3.1	4.8
NNW	1.5		.5									2.3	4.0
VARBL													
CALM												27.5	
	30.5	26.7	8.4	6.9								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

131

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 07115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH MAY

CLASS ALL WEATHER

CONDITION

ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.8	.7	.1									1.6	4.0
NNE	.8	.4										1.2	3.0
NE	.7	.5										1.2	3.4
ENE	.8	1.1	.3		.1							2.2	4.7
E	1.8	3.4	2.6	.5	.1							8.3	5.9
ESE	.7	1.2	.5	.3	.1							2.6	6.8
SE	.6	.4	.1	.1								1.2	4.3
SSE	.7	.4	.3	.4	.1	.2						2.2	8.1
S	1.1	1.4	2.1	2.2	.3							7.1	8.7
SSW	.7	1.9	3.0	1.2								6.8	7.7
SW	.5	2.4	2.8	.4	.1							6.2	6.8
WSW	1.1	3.4	3.6	1.1								9.1	7.1
W	2.7	5.8	9.5	2.7	.5	.1						21.3	7.5
WNW	.9	4.3	4.6	1.8	.2							11.8	7.5
NW	.8	2.6	2.7	1.0								7.1	7.2
NNW	.9	1.6	1.1	.1								3.5	6.1
VARBL													
CALM												6.4	
	15.1	31.6	33.4	11.8	1.4	.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 1521

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

74
YEARS

YEARS

APR
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	33.3											33.3	2.0
NE													
ENE													
E	33.3											33.3	3.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												33.3	
	66.7											100.0	1.7

TOTAL NUMBER OF OBSERVATIONS 3

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

9315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

74
YEARS

APP
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E		100.0										100.0	4.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
		100.0										100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

9715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APC
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7										1.5	4.0
NNE	2.2	.4										2.6	3.0
NE	1.1	3.0										4.1	4.1
ENE	3.0	2.6	1.5									7.4	4.3
E	6.7	16.3	8.1	.4	.4							31.9	5.7
ESE	3.0	3.0	1.9									7.8	4.7
SE	.7		.4									1.1	4.7
SSE	.7	1.1	.4									2.2	4.2
S	2.2	.4										2.6	2.7
SSW	1.5	1.5	.7									3.7	4.6
SW	1.1	1.9	.4									3.3	4.4
WSW	1.5	.4	.7	.7								3.3	7.0
W	1.1	2.6	3.7	.4								7.8	7.0
WNW	1.5	2.2	1.5									5.2	5.3
NW	.4	1.1	.7	.4								2.6	6.6
NNW	.4			.4								.7	8.5
VARBL													
CALM												12.2	
	27.8	37.0	20.4	2.2	.4							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

270

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APP
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4		.4									.7	5.5
NNE	.4											.4	2.0
NE													
ENE		.4										.4	4.0
E		.4		.4								.7	9.5
ESE													
SE		.4										.4	6.0
SSE					.4							.4	20.0
S		.4	1.4	1.4	.4							3.9	10.7
SSW	.7	3.9	4.6	1.4								10.7	7.3
SW	.4	2.4	6.4	.4								10.0	7.3
WSW	1.4	2.2	4.3	.7								14.6	6.2
W	.7	14.6	11.4	1.1								27.8	6.6
WNW	1.4	9.6	9.3									20.6	6.4
NW	2.1	2.4	1.8	1.1								7.8	6.4
NNW	.7		.4									1.1	4.3
VARB													
CALM												.7	
	8.5	43.4	40.2	6.4	.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

53115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE				.4								.4	16.0
NNE													
E													
ESE													
SE													
SSE					.4							.4	20.0
S		.4	.7	2.1	.4							3.6	11.7
SSW	.4		6.0	1.4								7.8	9.0
SW	.4	.4	7.5	1.1								9.3	8.3
WSW		4.3	12.5	3.2								19.9	8.3
W	.4	7.1	19.2	5.3								32.0	8.3
WNW		2.8	13.9	5.0								21.7	9.1
NW		.4	1.2	1.4								5.0	10.1
NW													
VARB													
CALM												.7	
	1.1	15.3	63.0	19.9	.7							100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

4
STATION
73115

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
73-82

MONTH
APR

CLASS
ALL WEATHER

DATE
16

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE				.4								.4	15.0
NE													
ENE													
E													
ESE			.4									.4	9.0
SE													
SSE				.4								.4	15.0
S	.4		1.1	1.5	.4							3.3	10.4
SSW		1.5	4.8									6.3	7.6
SW	.4	2.2	4.5	.4								7.4	7.2
WSW	.4	6.3	8.2									14.9	6.6
W	.7	13.0	19.7	2.6								36.1	7.2
WNW	.7	4.8	13.8	3.0								22.3	8.2
NW		.4	5.6	1.5								7.4	9.3
NNW		.4		.4								.7	8.0
VARBL													
CALM												.4	
	2.6	28.6	58.0	10.0	.4							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

269

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.4									.4	7.0
NNE													
NE													
ENE													
E		.2										.3	5.0
ESE													
SE				.4								.4	11.0
SSE	.4											.4	2.0
S	.8	2.0	2.0	.8								5.7	6.7
SSW	2.4	2.4	2.0									6.9	4.6
SW	3.7	3.3	1.6									8.5	4.3
WSW	4.1	3.7	1.6	.4								9.8	4.6
W	10.2	8.5	2.8	.8	.4							22.8	4.6
WNW	6.9	6.9	3.3									17.1	4.5
NW	2.4	7.3	3.7									13.4	5.4
NNW	.4	1.6	.4									2.8	4.4
VARBL													
CALM												11.0	
	31.7	36.6	17.9	2.4	.4							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

246

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

22

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7										2.1	3.0
NNE	.7											.7	2.0
NE													
ENE	2.0											2.0	3.0
E	1.4	2.0										4.3	3.8
ESE	2.1	2.1										4.3	3.3
SE	1.4	.7										2.1	3.3
SSE	3.6	2.9										6.4	3.6
S	5.0	2.9	2.1									10.0	4.2
SSW		.7										.7	6.0
SW	2.0	.7										3.6	2.6
WSW	1.4	2.1	.7									4.3	4.7
W	5.0	5.7	2.9	.7								14.3	5.2
WNW	4.3	3.6	1.4									9.3	4.3
NW	5.7											5.7	2.4
NNW	.7	1.4										2.1	3.7
VARBL													
CALM												27.1	
	30.4	26.4	7.1	.7								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

147

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

07115
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSAPR
MONTHALL WEATHER
CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.2	.1									.7	4.3
NNE	.4	.1		.1								.7	3.8
NE	.2	.5		.1								.4	5.1
ENE	.1	.1	.3									1.7	4.1
E	1.4	3.5	1.5	.1	.1							6.6	5.6
ESE	.7	.7	.4									1.7	4.6
SE	.3	.1	.1	.1								.5	5.1
SSE	.5	.5	.1	.1	.1							1.3	5.0
S	1.1	.9	1.2	1.1	.2							4.4	7.7
SSW	.9	1.7	3.4	.5								6.5	7.0
SW	1.3	1.9	3.6	.3								7.3	6.5
WSW	1.4	4.4	5.1	.9								11.6	6.7
W	2.7	8.9	10.7	1.9	.1							24.3	6.6
WNW	2.3	5.1	7.8	1.5								16.6	7.0
NW	1.4	2.1	2.7	.9								7.0	6.8
NNW	.4	.5	.1	.1								1.1	5.2
VARBL													
CALM												6.5	
	15.3	31.5	37.2	7.6	.5							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

1421

SMOS

4

24000-0432

1225

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 07110 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 74 MONTH MAY

CLASS ALL WEATHER

CONDITION

HOURS (L.S.T.) 01

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW	50.0											50.0	3.0
WSW													
W	50.0											50.0	3.0
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS



4

2404 042

1275

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0415 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-74

CLASS ALL WEATHER

CONDITION

MAY MONTH 1974 HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW	50.0											50.0	3.0
SW	50.0											50.0	1.0
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	100.0											100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY (COMMAND)
DETACHMENT ASHEVILLE NC. OCT 83

IMPERIAL BEACH CALIFORNIA (U) NAVAL OCEANOGRAPHY COMMAND

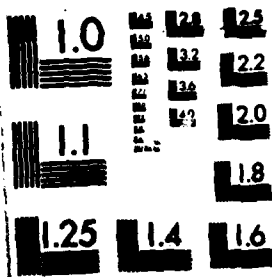
DETACHMENT ASHEVILLE NC OCT 83

total = 87,900 14.0

FIG. 4/2

240

A 10x10 grid of 100 small, dark, rectangular objects, possibly film strips or microfilm frames, arranged in a grid pattern. The objects are dark and appear to be part of a larger document or film strip.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPEPIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7										1.8	2.8
NNE	.7	.7										1.4	3.3
NE	1.8	.4										2.2	3.2
NNE	2.2	2.5	.4									5.0	3.7
E	1.8	6.8	2.5									11.2	5.0
ESE	1.8	1.8	.7									4.3	4.3
SE	.7	1.1										1.8	3.6
SSE	1.1	1.4	.4									2.9	4.0
S	4.0	5.0	1.4	.7								11.2	4.8
SSW	3.6	4.7	.4	.4								9.0	4.3
SW	2.9	2.2	1.4									6.5	4.5
WSW	2.9	1.8	1.4	.4								6.5	5.3
W	4.3	3.6	2.2	.4								10.4	4.7
WNW	2.9	4.0	.4	.4								7.6	4.4
NW	1.4	2.5										4.0	3.9
NNW	.4	1.1										1.4	3.8
VARB													
CALM												12.9	
	33.5	40.3	11.2	2.2								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 278

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		1.1	1.8	1.0		.4						3.0	10.7
SSW	.4	1.1	7.2	1.1								9.7	8.3
SW	.4	5.0	9.4	.7								15.5	7.4
WSW	.4	9.4	10.4	1.0								21.9	7.2
W	.7	12.2	15.5	2.2								30.6	6.8
WNW	.7	2.9	8.3	1.1								12.9	7.8
NW		1.9	1.1	.4								3.2	6.6
NNW		.7	.4									1.1	6.2
VARBL													
CALM												.0	
	2.5	34.2	54.0	9.0		.4						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

278

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

0315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE				.4								.4	16.0
S			.7	1.1								1.8	10.8
SSW		.7	8.6	1.8								11.2	8.9
SW		2.2	10.1	2.9								15.1	9.0
WSW	.4	4.3	19.1	2.2	.4							22.3	8.5
W	.4	5.0	23.7	6.1								35.3	8.7
WWW		1.1	6.5	3.2								10.8	9.3
NW			.7	2.5								3.2	11.9
NNW													
VARB													
CALM												.0	
	.7	13.3	43.5	20.1	.4							100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 278

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

OBSERVATION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S			.4	.4								.8	10.0
SSW	.4	2.9	6.2	2.5								12.0	8.5
SW	.4	5.4	8.3	.4								15.5	6.9
WSW		10.3	12.0	1.2								23.6	7.1
W	.4	10.3	19.0	.4								30.2	7.3
WNW		4.5	9.5	1.2								15.3	8.0
NW		.4	1.7	.4								2.5	8.8
NNW			.4	.4								.8	12.0
VARIABLE													
CALM												.4	
	1.2	33.9	57.8	7.0								100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

242

2808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

19
NOON (L.S.T.)

DESCRIPTION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4											.4	2.0
NNE													
NE	.4											.4	3.0
NNE													
E													
ESE													
SE	.4											.4	2.0
ESE													
S	1.3	2.6	1.7									5.6	5.4
SSW	3.5	4.8	1.3									9.5	4.3
SW	3.9	7.4	.9									12.1	4.3
WSW	5.2	5.2	2.6	.4								13.4	4.8
W	7.8	14.7	3.5									26.0	4.7
WNW	5.2	9.1	1.7	.4								16.5	4.6
NW	2.2	4.3	2.6									9.1	5.5
NNW		1.3										1.3	5.0
VARB.													
CALM												5.2	
	10.3	42.4	14.3	.9								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

231

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74.78-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

22

RODS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE	.7											.7	3.0
E		.7										.7	5.0
ESE													
SE	.7	.7										1.5	3.0
SSE		2.2										2.2	5.0
S	6.7	3.7	.7									11.1	3.4
SSW	5.2	4.4	.7									10.4	3.6
SW	3.7	2.2	.7									6.7	3.9
WSW	4.4	3.0										7.4	3.5
W	10.4	3.0	3.0	.7								17.0	4.3
WNW	4.4	4.4										8.9	3.8
NW	4.4	2.2										6.7	2.9
NNW	2.2											2.2	2.7
VARB													
CALM												24.4	
	43.0	26.7	5.2	.7								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

175

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEAR 73-82 MONTH MAY

CLASS ALL WEATHER HOUR (L.S.T.) ALL

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.1										.4	2.7
NNE	.1	.1										.3	3.3
NE	.4	.1										.5	3.1
NNE	.5	.5	.1									1.0	3.7
E	.3	1.4	.5									2.2	5.0
ESE	.3	.3	.1									.8	4.3
SE	.3	.3										.6	3.3
SSE	.2	.5	.1	.1								.8	5.3
S	1.6	1.9	1.2	.8		.1						5.5	6.2
SSW	1.9	2.9	4.4	1.0								10.3	6.7
SW	1.8	4.1	5.6	.8								12.2	6.7
WSW	1.9	5.8	7.6	1.1	.1							16.5	6.9
W	3.4	8.4	12.0	1.8								25.5	6.7
WNW	1.9	4.1	4.8	1.2								12.0	6.7
NW	1.0	1.8	1.0	.6								4.5	6.2
NNW	.3	.6	.1	.1								1.0	5.4
VARIABLE													
CALM												5.7	
	16.4	32.9	37.5	7.4	.1	.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 1446

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115 STATION IMPERIAL BEACH, CALIFORNIA 73-82 YEARS JUN MONTH 07 HOURS (L.S.T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	1.1	.4									4.6	2.9
NNE	1.9	2.1	.4									4.2	3.8
NE	1.4	.7										2.1	3.2
NNE	1.9	.4										2.1	2.5
E	3.2	1.4										4.6	3.0
ESE	1.1	.4										1.4	2.3
SE	1.4	.7										2.1	2.6
SSE	1.1	1.1										2.1	3.3
S	1.9	5.3	.4	.4								7.8	4.7
SSW	1.4	3.2	1.4									6.0	5.2
SW	2.9	3.9	.4									7.1	3.9
WSW	2.5	1.8										4.2	3.4
W	6.0	4.6	1.1									11.7	3.9
WNW	4.2	2.8	.7									7.8	3.8
NW	3.2	5.3	.7									9.2	3.8
NNW	2.1	2.5	.7									5.3	4.1
VARB													
CALM												17.7	
	38.9	37.1	6.0	.4								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 283

SMOG

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4										.4	6.0
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S		1.1	.7	1.1	.4							3.2	10.1
SSW		2.5	7.4	.7	.4							11.0	8.2
SW	.4	3.5	8.1	.4								12.4	7.3
WSW	.4	7.8	6.4	.7								15.2	6.6
W	.4	17.0	17.7	1.1								36.0	6.9
WNW	.7	4.6	10.2	1.1								16.6	7.4
NW		1.8	1.8	.4								3.9	7.4
NNW	.4		.4									.7	5.5
VARB.													
CALM												.7	
	2.1	38.5	52.7	5.3	.7							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

283

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

23115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS JUN MONTH 13 DAYS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S			1.8	1.1								2.8	10.6
SSW	.4	1.8	4.6	1.1	1.1							8.9	9.4
SW		3.5	8.9	1.8								14.2	8.1
WSW		5.3	13.5	1.8								20.6	7.9
W		5.0	26.2	5.3								36.5	8.7
WNW		2.1	7.8	5.7								15.6	9.5
NW			.7	.4								1.1	10.3
NNW			.4									.4	10.0
VARIABLE													
CALM												.0	
	.4	17.7	63.8	17.0	1.1							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 282

8805

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		.8	.4	1.2								2.4	10.3
SSW		2.4	6.5	.4								9.3	7.5
SW	1.2	6.0	2.8									10.1	6.0
WSW		12.1	10.1									22.2	6.5
W	.8	14.9	20.2	1.2								37.1	7.1
WNW		2.8	12.1	2.0								16.9	8.3
NW		.8	1.2									2.0	7.0
NNW													
VARS													
CALM												.0	
	2.0	30.9	53.2	4.8								100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

248

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JUN
MONTH

ALL WEATHER
CLASS

19
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE		.4										.4	6.0
S	.4	2.0		.8								4.2	6.1
SSW	2.5	5.5	.4									8.4	4.6
SW	5.0	6.7	.4									12.2	3.7
WSW	5.0	7.1	.8									13.0	4.2
W	11.8	13.0	3.4									29.0	4.1
WNW	1.3	12.2	3.4									16.6	5.3
NW	2.1	3.8	2.5									8.4	5.0
NNW	.4	.4										1.3	4.3
VARB.													
CALM												6.3	
	26.6	53.4	10.9	.8								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

238

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0115 IMPERIAL BEACH, CALIFORNIA 73, 77-82 YEARS JUN
STATION NAME MONTH
CLASS ALL WEATHER HOURS (L.S.T.) 22
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	.6											.6	3.0
ESE	.5											.6	3.0
SE			.5									.6	9.0
SSE	.6											.6	2.0
S	2.2	5.7	1.3									10.2	4.4
SSW	3.8	1.3	.6									5.7	3.6
SW	3.2											3.2	2.4
WSW	1.9	1.3	.6									3.8	3.8
W	9.9	4.5										13.4	3.2
WNW	5.1	8.9	.6									14.6	3.9
NW	5.1	3.2										8.3	3.2
NNW	1.9	1.9										3.8	3.8
VARB.													
CALM												34.4	
	35.0	26.8	3.8									100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 157

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH JUN
CLASS ALL WEATHER HOUR (L.S.T.) ALL
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3	.1									.9	3.1
NNE	.3	.4	.1									.8	3.8
NE	.3	.1										.4	3.2
NNE	.7	.1										.4	2.5
E	.7	.3										.9	3.0
ESE	.3	.1										.3	2.4
SE	.3	.1	.1									.5	3.7
SSE	.3	.3										.5	3.5
S	.7	2.4	.7	.8	.1							4.8	6.7
SSW	1.1	2.8	3.8	.4	.3							8.4	7.0
SW	1.9	4.2	3.8	.4								10.3	6.0
WSW	1.5	6.1	5.6	.5								13.7	6.3
W	4.2	10.2	12.4	1.4								28.2	6.5
WNW	1.7	5.2	6.2	1.6								14.6	6.9
NW	1.5	2.4	1.2	.1								5.2	5.0
NNW	.7	.8	.3									1.9	4.4
VARBL													
CALM												8.1	
	16.4	35.7	34.2	5.2	.3							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 1491

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

63115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEAR

JUL
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												100.0	
												100.0	.0

TOTAL NUMBER OF OBSERVATIONS

1

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JUL
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.5
NNE	2.8											2.8	2.4
NE	2.1	.4										2.5	2.6
NNE	.7	1.1										1.8	3.6
E	.4	1.4										1.8	3.4
ESE													
SE		.4										.4	5.0
SSE	.7	.4										1.4	4.5
S	2.1	3.2	1.4	.4								7.1	4.8
SSW	5.3	5.7	1.1									12.0	4.0
SW	3.5	.7										4.2	2.7
WSW	4.9	2.8										7.8	3.2
W	7.8	6.4	1.4									15.5	3.9
WNW	7.8	6.0	.4									14.1	3.4
NW	3.2	5.3										8.5	3.5
NNW	1.5	.4										2.1	2.7
VARB.													
CALM												17.3	
	43.8	33.9	4.4	.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

283

8805

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

LOCATION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE		.4										.4	6.0
S		2.5	2.5	.7								5.6	7.6
SSW	.7	3.9	4.6	.7								9.8	7.0
SW	.4	3.9	6.3	.7								11.2	7.3
WSW	1.8	6.3	6.0									14.0	6.0
W	1.4	17.5	21.4	1.8								42.1	7.0
WNW	.4	4.2	11.2									15.8	7.4
NW			1.1									1.1	8.7
NNW													
VARB													
CALM												.0	
	4.6	38.6	53.0	3.9								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 255

8805

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEAR 73-72 MONTH JUL
CLASS ALL WEATHER HOURS (L.S.T.) 13
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S			2.5	.4								2.8	8.4
SSW		1.4	4.2	2.1								7.7	9.5
SW		1.8	6.0	1.8	.4							9.8	9.0
WSW		7.7	13.3	.4								21.4	7.3
W		8.4	28.8	6.7								43.9	8.4
WNW			10.9	2.8								13.7	9.4
NW				.7								.7	12.5
NNW													
VARBL													
CALM												.0	
		19.3	65.6	14.7	.4							100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

16
DAYS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S		1.3	1.3									2.6	6.8
SSW	.9	3.4	6.1	.9								11.1	7.2
SW		2.1	6.4	.4								9.0	7.9
WSW	1.7	11.5	11.1	.4								24.8	6.3
W	.9	14.1	18.4	2.6								35.9	7.3
WNW		2.6	12.4	.4								15.4	7.8
NW			1.3									1.3	8.7
NNW													
VARB.													
CALM												.0	
	3.4	35.0	56.8	4.7								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

230

8805

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

ORIENTATION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S	1.3	2.6	1.8									5.7	5.2
SSW	4.8	5.3	.4	.4								11.0	4.0
SW	3.1	6.2	.9									10.1	4.8
WSW	7.9	8.8										16.7	3.8
W	10.6	10.3	2.6									29.5	4.2
WNW	4.0	9.7	4.0									17.6	3.0
NW	.9	3.1	1.3									5.3	3.8
NNW													
VAR													
CALM												4.0	
	32.6	52.0	11.0	.4								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

227

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73.77-82
YEARS

JUL
MONTH

ALL WEATHER
CLAS

22
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE	.7											.7	2.0
SSE													
S	4.6	3.3	.7									8.5	3.5
SSW	6.5	3.3										9.8	3.4
SW	7.8	.7	.7									9.2	2.6
WSW	3.9											3.9	2.3
W	6.5	5.9										12.4	3.2
WW	9.8	8.5										18.3	3.5
NW	4.6	3.3										7.8	3.5
NNW	.7											.7	2.0
VARL													
CALM												28.8	
	95.1	24.8	1.3									100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 153

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

JUL
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1											.1	2.5
NNE	.5											.5	2.4
NE	.4	.1										.5	2.6
NNE	.1	.2										.3	3.6
E	.1	.3										.3	3.4
ESE													
SE	.1	.1										.1	3.5
SSE	.1	.1	.1									.3	4.8
S	1.1	2.0	1.8	.3								5.2	5.6
SSW	2.7	3.8	2.9	.7								10.2	5.9
SW	2.0	2.6	3.6	.5	.1							8.9	6.2
WSW	1.2	6.5	5.5	.1								15.3	5.6
W	4.2	11.6	13.4	2.0								31.3	6.6
WNW	1.2	4.8	6.9	.6								15.5	6.2
NW	1.2	1.8	.6	.1								3.8	4.8
NNW	.6	.1										.5	2.6
VARBL													
CALM												7.0	
	14.6	34.0	34.8	4.5	.1							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

1468

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 3115 IMPERIAL BEACH, CALIFORNIA 73 AUG
STATION NAME YEARS MONTH
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW	100.0											100.0	3.0
W													
WNW													
NW													
NNW													
VARIABLE													
CALM												0.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

AUG
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	100.0											100.0	3.0
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 23115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH AUG
 CLASS ALL WEATHER
 HOURS (L.S.T.) 07
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.4										3.1	3.2
NNE	1.7	.3										2.1	3.0
NE	3.5	1.1										4.6	2.8
ENE	1.1	2.4										3.5	4.0
E	1.4	3.5	.7									5.5	4.6
ESE	1.7	.7	.3									2.9	3.3
SE	2.1											2.1	2.2
SSE	1.7	.3										1.4	2.5
S	1.4	3.5	1.4									6.2	5.3
SSW	3.5	3.1	.7									7.3	4.0
SW	2.4	3.1										5.5	3.5
WSW	3.1	1.7										4.8	3.0
W	6.6	2.1	.3									9.0	3.2
WNW	4.8	5.5	.3									10.7	3.9
NW	3.8	4.5	1.1									9.3	4.1
NNW	.3	2.1										2.4	4.3
VARL													
CALM												19.7	
	40.1	35.3	4.8									100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 284

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-62
YEARS

AUG
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		.7	.7	.7	.3	.3						2.1	12.7
SSW		1.7	4.2	2.4								9.3	9.3
SW		2.4	7.6	.7								10.7	7.5
WSW	.7	6.9	5.9									13.5	6.5
W	1.3	15.2	17.6	.7								34.6	6.9
WNW	.7	4.2	16.3	.7								21.8	7.6
NW	.3	2.4	3.3									6.0	6.7
NNW		.3	.3									.7	6.0
VARBL													
CALM												.7	
	2.0	33.6	56.7	5.5	.3	.3						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 7315 IMPERIAL BEACH, CALIFORNIA STATION NAME: 73-02 YEARS: AUG MONTH: 13 HOURS (L.S.T.):

ALL WEATHER CLASS:

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		.7										.3	6.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S			.7	1.7	.7							2.4	13.3
SSW			4.2	1.7								5.9	10.0
SW		1.7	7.6	2.1								11.4	8.9
WSW		2.8	10.4	1.7								14.9	8.2
W		7.3	31.5	2.8								41.5	8.2
WNW		2.1	13.5	4.5								20.1	9.1
NW	.3		2.4									2.8	8.5
NNW			.7									.7	10.0
VARBL													
CALM												.0	
	.3	14.2	70.9	13.6	.7							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.4											.4	2.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S			.4	.4								.8	11.5
SSW		1.2	3.9	1.6								6.6	9.0
SW	.8	3.5	4.7	.4								9.3	6.5
WSW		.7	7.8	.4								13.2	7.1
W	.4	15.5	24.4	1.6								42.2	7.1
WNW		5.4	14.7	.8								20.9	7.6
NW		.4	4.7									5.0	8.1
NNW			1.2									1.2	9.0
VARBL													
CALM												.4	
	1.9	31.0	61.6	5.0								100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

258

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

07115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.4									.4	8.0
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	.4	2.1	1.2	.4								4.6	5.8
SSW	2.1	1.7	.4									4.6	3.8
SW	3.7	5.4	.4									10.0	4.0
WSW	4.6	5.4	.4									10.0	4.1
W	11.7	14.2	1.2									27.1	3.7
WNW	6.2	16.2	2.1									24.6	4.4
NW	2.1	8.3	1.2									11.7	4.8
NNW		2.1										2.1	5.0
VARIABLE													
CALM												4.6	
	31.2	55.4	8.3	.4								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 240

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7315 IMPERIAL BEACH, CALIFORNIA 73.77-82 YEARS AUG
STATION NAME MONTH
CLASS ALL WEATHER 22
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	3.0
NNE													
NE													
ENE													
E	.6											.6	2.0
ESE													
SE													
SSE	1.3	.6	.6									2.6	4.8
S	3.9	3.2	1.3									8.4	4.0
SSW	4.5	4.5										9.0	3.6
SW	1.9	1.9										3.9	3.7
WSW	7.7	.6										8.4	2.5
W	9.7	2.6										12.3	2.7
WNW	6.4	3.2										11.6	3.3
NW	3.2	3.2										7.1	3.6
NNW	1.3	1.3										2.6	3.8
VARS													
CALM												32.9	
	43.2	21.9	1.9									100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 155

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

ALL
SOURCE (L.S.T.)

DESCRIPTION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.3	.1									.7	3.6
NNE	.4	.1										.5	3.3
NE	.7	.2										.9	2.8
NNE	.2	.5										.7	4.0
E	.3	.7	.1									1.1	4.5
ESE	.3	.1	.1									.5	3.3
SE	.4											.4	2.2
SSE	.3	.1	.1									.5	3.6
S	.9	1.4	.9	.5	.2	.1						3.8	7.0
SSW	1.4	1.8	2.6	1.1								7.0	7.0
SW	1.4	3.0	3.8	.6								8.8	6.4
WSW	2.3	3.9	4.5	.4								11.1	6.1
W	4.4	9.9	13.7	.9								28.8	6.4
WNW	2.9	6.0	8.5	1.1								18.6	6.5
NW	1.5	3.1	2.4									7.0	5.5
NNW	.2	.9	.4									1.5	5.8
VARB.													
CALM												8.0	
	18.0	32.0	37.1	4.6	.2	.1						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1522

8M08

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEAR

SEP
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE		100.0										100.0	5.0
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARB													
CALM												.0	
		100.0										100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

SEP
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE		50.0										50.0	5.0
NNE													
E													
ESE													
SE													
SSE													
S	50.0											50.0	2.0
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARB.													
CALM												.0	
	50.0	50.0										100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

2

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH SEP
CLASS ALL WEATHER HOUR (L.S.T.) 07
CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.4									1.8	4.6
NNE	2.9	.4										3.3	2.7
NE	3.7	1.5										5.5	3.3
NNE	2.6	2.6	1.1									6.2	4.2
E	4.4	7.7	1.5	.4								14.3	4.7
ESE	1.5	1.1	1.1									3.7	4.4
SE	.7	.4										1.1	2.7
SSE	1.1	1.1	.7									2.9	4.1
S	3.3	2.9	1.8									8.1	4.5
SSW	2.9	1.1										4.0	2.8
SW	2.2	1.5	.4									4.0	3.6
WSW	2.9	.4	.7									4.0	3.2
W	3.7	2.2										5.9	3.3
WNW	3.7	1.5										5.1	2.9
NW	2.6	1.8										4.4	3.4
NNW	2.6	1.5										4.0	3.4
VARB.													
CALM												21.3	
	41.5	28.7	5.1	.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 272

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115

IMPERIAL BEACH, CALIFORNIA

73-92

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

10

HOUSE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4										.4	4.0
NNE													
NE													
NNE													
E	.4			.4								.7	6.5
ESE													
SE													
SSE		.4										.4	5.0
S	.4	2.2	.7									3.3	5.6
SSW	.4	2.6	2.7	1.1	.4							7.4	7.8
SW	.7	3.3	2.7	.4								7.4	6.6
WSW	1.2	8.5	3.7	.4								14.3	5.8
W	1.4	20.2	9.9	1.5								33.5	6.1
WNW	.7	9.2	8.8	.4								19.1	6.6
NW		4.9	5.5									10.3	6.6
NNW	.4	1.1	1.5									2.9	5.9
VARBL													
CALM												.4	
	6.6	52.6	36.0	4.0	.4							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

272

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

63115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE				.4								.4	12.0
SE													
SSE			.7									.7	7.5
S			.4									.4	10.0
SSW		.7	2.2	2.9	.4							6.2	10.8
SW		3.3	4.8	1.5								9.6	7.8
WSW	.7	5.2	9.6	1.5								18.0	7.4
W	.7	9.2	20.2	7.0								37.1	8.2
WNW		2.7	13.6	3.3								19.9	8.9
NW		.7	4.8	1.8								7.4	9.3
NNW		.4										.4	5.0
VARB													
CALM												.0	
	1.5	23.5	56.2	18.4	.4							120.0	8.4

TOTAL NUMBER OF OBSERVATIONS

272

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH SEP
CLASS ALL WEATHER HOUR 16
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE						.4						.4	25.0
S		.9	.4	.4								1.7	7.8
SSW	.4	4.3	3.0	.9								8.5	7.4
SW	.4	3.2	2.1	.4								6.8	6.3
WSW	1.3	6.8	3.4	1.3								13.2	6.3
W	2.5	12.3	12.1	2.1								36.2	7.0
WWW	2.1	9.4	8.5									20.0	6.2
NW		3.5	6.0	.4								10.2	7.7
NNW		.0	2.1									3.0	8.1
VARB													
CALM												.0	
	6.8	42.1	45.1	5.5		.4						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 235

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 3115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH SEP
CLASS ALL WEATHER HOURS (LST) 17
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	.4											.4	3.0
E													
ESE	.4		.4									.9	5.5
SE													
SSE		.4										.4	4.0
S	5.3	1.3	.9			.4						8.0	4.3
SSW	6.6	2.2	1.3									10.2	3.4
SW	3.5	2.7										6.2	3.3
WSW	2.2	2.2	.4									4.9	3.8
W	11.9	5.8	.9									18.6	3.3
WNW	4.9	5.8										10.6	3.7
NW	4.7	11.9	.9									16.4	4.4
NNW	.4	2.7										3.1	4.6
VARBL													
CALM												19.9	
	32.6	35.0	4.9			.4						100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 226

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 02115 IMPERIAL BEACH, CALIFORNIA 73, 77-82 SEP
STATION NAME YEARS MONTH
ALL WEATHER CLASS 22
CONDITION HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	.7										2.8	2.8
NNE													
NE	1.4	.7										2.1	3.0
ENE	.7	1.4										2.1	3.7
E	.7	.7										1.4	3.5
ESE	1.4											1.4	2.9
SE	.7											.7	3.0
SSE	3.5											3.5	2.2
S	4.2	4.2	.7		.7							10.6	4.5
SSW	3.5	4.2	.7									8.5	4.1
SW	1.4											1.4	3.0
WSW	2.1											2.1	2.0
W	7.8	1.4										6.5	2.7
WNW	3.5	5.6										9.2	3.8
NW	4.2	3.5										7.7	3.5
NNW		2.1										2.1	4.3
VARB													
CALM												35.9	
	36.6	25.4	1.4		.7							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 142

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7315 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-72 SEE NORTH
ALL WEATHER CLASS ALL HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.3	.1									.7	3.7
NNE	.6	.1										.7	2.7
NE	.5	.1										1.2	3.4
ENE	.4	.6	.7									1.7	4.1
E	1.0	1.5	.4	.1								3.0	4.8
ESE	.7	.3	.7	.1								1.8	4.1
SE	.2	.1										.3	2.8
SSE	.4	.4	.3			.1						1.2	5.2
S	2.0	1.1	.8	.1	.1	.1						4.3	4.8
SSW	2.1	2.3	1.4	.9	.1							7.2	6.3
SW	1.3	2.6	1.0	.4								6.3	5.9
WSW	1.0	4.4	2.4	.6								10.1	6.0
W	4.2	0.1	0.1	2.0								24.4	6.3
WNW	2.3	5.6	5.7	.7								14.3	6.3
NW	1.5	4.3	3.1	.4								9.4	6.0
NNW	.6	1.3	.6									2.5	5.2
VARBL													
CALM												10.9	
	20.7	35.2	27.6	5.3	.2	.1						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 1422

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH OCT
CLASS ALL WEATHER HOURS (L.S.T.) 07
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9											2.9	2.4
NNE	2.9	1.4										4.3	3.0
NE	3.4	2.2	1.1									6.9	3.7
ENE	3.6	5.7	1.4									10.9	4.5
E	5.4	15.6	8.3	.4								29.7	5.4
ESE	2.2	2.9	1.1									6.2	4.7
SE	2.2	.7										2.9	3.3
SSE	1.4											1.4	2.5
S	2.2	1.0		.4								4.3	4.4
SSW	1.4	1.1										2.5	3.6
SW		1.1										1.1	4.0
WSW	.4	.4		.7								1.4	7.3
W	.7	1.1	.7									2.5	4.7
WNW	1.5	.4										2.2	2.2
NW	2.2											2.2	2.2
NNW	1.4	.4										1.8	3.0
VARBL													
CALM												16.7	
	34.4	34.8	12.7	1.4								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 276

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

07115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-42
YEAR

OCT
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7										1.2	3.0
NNE	.7											.7	2.0
NE	.4	.4										.7	4.5
ENE	.4											.4	2.0
E		.7	.4									1.1	7.0
ESE	.4			.4								.7	8.0
SE													
SSE	.4											.4	3.0
S	.4	1.1	.4		.4							2.1	7.3
SSW	1.1	3.2	2.1	1.4								7.8	6.8
SW	1.4	4.3	1.4	.4								7.5	5.5
WSW	1.4	4.6	2.5	.4								8.9	5.5
W	2.0	13.5	2.0	.7								19.0	5.3
WNW	2.1	13.5	5.7									26.3	5.4
NW	2.1	12.1	1.4	.4								16.0	5.1
NNW	1.4	2.1	.4									3.9	4.5
VARB													
CALM												1.5	
	16.0	61.2	17.1	3.6	.4							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE				.4								.4	16.0
E													
ESE													
SE													
SSE													
S			.7	.4								1.1	9.0
SSW		.7	3.6	3.6								7.8	10.1
SW		5.7	2.1	1.1								8.5	6.8
WSW	.7	6.8	4.3	1.4								13.2	6.8
W	1.1	12.1	21.0	3.9								38.1	7.7
WNW	.7	4.3	17.1	3.9								26.0	8.4
NW		.4	3.6	.7								4.6	8.9
NNW													
VARBL													
CALM												.4	
	2.5	20.5	52.3	15.3								100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E					.4							.4	20.0
ESE													
SE													
SSE													
S	.4	1.6	.8									2.9	5.7
SSW	.4	3.7	4.1	.8	.4							9.4	7.6
SW	1.2	3.7	.3	.4								6.1	5.8
WSW	2.0	7.3	2.9									12.2	5.3
W	4.1	18.4	7.8	.8								31.0	5.5
WNW	.8	11.0	13.5	.4								25.7	6.8
NW	.8	3.7	5.3	.4								10.2	7.0
NNW		.4	.8									1.2	7.0
VARBL													
CALM												.8	
	9.8	42.8	35.9	2.9	.8							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

245

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	1.3										3.1	3.1
NNE													
NE	.9											.9	2.5
NNE		.4										.4	4.0
E	.9		.4									1.3	4.7
ESE	.4											.4	2.0
SE	.4											.4	2.0
SSE	.4											.4	2.0
S	3.1	2.7	1.8									7.5	4.5
SSW	2.2	4.0	.9									7.1	4.5
SW	1.8	.9	.4									3.1	3.9
WSW	1.7	.4	.4									2.2	3.4
W	3.5	3.1	.4	.4								7.5	4.2
WNW	.4	3.5	.4									12.4	3.4
NW	7.1	4.0	.4									11.5	3.3
NNW	4.7	1.3	.4									5.8	2.9
VARB.													
CALM												35.8	
	36.3	21.7	5.8	.4								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

226

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73.77-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1											2.1	2.0
NNE	2.1											2.1	2.3
NE	2.1											2.1	1.7
ENE	3.5	1.4										5.0	3.1
E	2.9	4.3	1.4									8.5	4.2
ESE	2.1	.7										2.8	2.3
SE	1.4	1.4										2.8	2.8
SSE	.7	.7										1.4	3.5
S	1.4		.7									2.1	3.3
SSW		.7										.7	4.0
SW	1.4		.7									2.1	4.0
WSW	1.4	.7	.7									2.8	4.5
W	2.1	.7		.7								3.5	5.2
WNW	4.3	2.1	1.4									7.8	3.5
NW	1.4	2.1										3.5	3.6
NNW	2.1	.7										3.5	2.4
VARBL													
CALM												46.8	
	31.9	15.6	5.0	.7								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

141

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

OCT
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.3										1.6	2.7
NNE	.9	.3										1.2	2.8
NE	1.1	.5	.2									1.8	3.5
ENE	1.1	1.3	.3	.1								2.8	4.5
E	1.4	3.5	1.9	.1	.1							7.0	5.4
ESE	.8	.5	.2	.1								1.7	4.5
SE	.6	.3										.9	3.0
SSE	.5	.1										.6	2.8
S	1.2	1.2	.7	.1	.1							3.3	5.2
SSW	.7	2.3	1.9	1.1	.1							6.2	7.1
SW	.9	2.8	1.7	.3								5.0	5.7
WSW	1.2	3.7	1.9	.5								7.2	5.8
W	2.3	8.8	6.1	1.2								18.5	6.2
WNW	2.8	7.1	6.9	.8								17.6	6.3
NW	2.2	3.9	1.9	.3								8.3	5.3
NNW	1.4	.9	.3									2.6	3.6
VARB													
CALM												13.9	
	20.6	37.5	23.3	4.6	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1450

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93115 IMPERIAL BEACH, CALIFORNIA 73 NOV
STATION NAME YEARS MONTH
CLASS ALL WEATHER
CONDITION 01
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE	20.0											20.0	3.0
ENE		20.0										20.0	6.0
E		40.0										40.0	6.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW			20.0									20.0	9.0
NW													
NNW													
VARB													
CALM												.0	
	20.0	60.0	20.0									100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 5

8MOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH NOV
CLASS ALL WEATHER
HOURS (L.S.T.) 06
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE			16.7									16.7	7.0
E			16.7									16.7	8.0
ESE			16.7									16.7	7.0
SE	16.7											16.7	2.0
SSE													
S													
SSW	16.7											16.7	2.0
SW													
WSW													
W													
WNW			16.7									16.7	10.0
NW													
NNW													
VARBL													
CALM												0.0	
	33.3		66.7									100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 6

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 NCV 67
CLASS ALL WEATHER
CONDITION 67
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	.4										2.4	2.7
NNE	5.2	4.4	.4									10.0	3.6
NE	4.4	4.0										9.2	3.7
ENE	4.0	9.2	2.4	.4								16.0	5.0
E	6.0	14.9	12.0	1.2								34.0	6.1
ESE	1.2	4.0		1.2								6.4	5.8
SE	.4	.4	1.6									2.4	6.2
SSE	.4			.4								.8	7.0
S	.4	.4	.4	.8								2.0	6.2
SSW		.4										.8	5.0
SW	.4	.4	.8									1.6	6.8
WSW		.4	.4	.4								1.2	7.7
W	.4	1.2	.8									2.4	5.8
WNW		.4	.4									.8	6.5
NW	.4		.4									.8	5.5
NNW	.4											.4	2.0
VARBL													
CALM												6.4	
	26.5	41.8	20.5	4.4								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 249

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH NOV
CLASS ALL WEATHER HOURS (LST) 10
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	3.0	.8									7.6	4.1
NNE	2.3	.9										3.0	3.1
NE	1.9	1.1	.4									3.4	3.4
ENE	2.3	1.1	.4									3.8	3.4
E	2.7	3.4	.8	1.9		.4						9.1	7.1
ESE	.9	1.9	1.1	.4	.8							4.5	6.3
SE	.8	.4	.4	.4								1.9	6.4
SSE		.4	.4		.4							1.1	9.7
S	.4	1.9	.8									3.0	5.6
SSW	.8	2.3	2.7									5.7	6.0
SW	.8	3.0	1.9	.8		.4						6.9	7.4
WSW	1.9	2.3	.8									4.9	4.4
W	3.8	4.2	1.9	.8								10.6	5.0
WNW	1.1	4.9	1.1									7.2	4.8
NW	1.4	6.4	2.7									12.5	4.8
NNW	1.1	6.4	1.5									9.1	4.7
VARBL													
CALM												5.7	
	26.9	43.9	17.4	4.2	1.1	.9						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 264

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7315 IMPERIAL BEACH, CALIFORNIA 73-82 YEARS NOV
STATION NAME MONTH
CLASS ALL WEATHER 17
HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.2	.2									1.5	6.2
NNE			.4									.4	10.0
NE													
ENE	.4			.4								.2	7.5
E													
ESE				.8								.2	14.0
SE													
SSE				.4								.4	16.0
S	.4		3.2	.4		.4						4.9	9.2
SSW		2.7	4.5									7.2	7.2
SW		3.2	3.2									6.4	6.5
WSW	1.2	6.1	3.2									10.6	5.5
W	1.1	15.5	7.6	2.7		.4						27.3	6.7
WNW	.4	6.1	14.2	.8	.4							22.0	7.7
NW		2.3	4.3	1.9								12.5	8.3
NNW	.4	1.1	2.3	1.1								4.9	7.8
VARB													
CALM												.2	
	4.5	38.3	47.7	8.3	.4	.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 254

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-P2

YEARS

MOV
NORTH

ALL WEATHER
CLASS

16
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.5	1.1									2.7	5.1
NNE													
NE	.4											.4	2.0
NNE													
E													
ESE		.4	.4									.8	7.0
SE				.4								.4	14.0
SSE				.4								.4	11.0
S	.4	.4	.4	.4								1.6	6.8
SSW	.3	4.5	1.2	.8								9.8	5.3
SW	2.3	4.9	1.1	.4								8.7	5.0
WSW	3.4	6.4	1.1	.2								12.1	4.6
W	4.2	9.8	6.1	1.5								21.6	5.9
WNW	2.7	10.2	6.0	.4								20.1	5.8
NW	.2	5.7	6.4									12.2	5.4
NNW	1.1	1.4	3.2									6.1	6.1
VARBL													
CALM												2.7	
	13.6	45.5	28.4	4.9								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

264

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-12 YEARS NOV
CLASS ALL WEATHER MONTH 19
CONDITION NOVRS (L S T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.3										4.5	2.3
NNE	.8	.5										.3	2.1
NE	.4	.5	.4									1.4	2.0
ENE	.5	.5										1.0	3.3
E	1.5	1.4		.5								5.1	2.6
ESE	2.3	.2		.5								4.0	3.2
SE		.4										.3	5.0
SSE	1.2	.5										2.3	2.6
S	2.3	2.1										5.1	3.8
SSW	.2	1.2	.2									3.7	4.6
SW	2.2	2.3	.5									5.6	3.4
WSW	.5			.9								1.4	4.3
W	1.2	2.3	.5			.5						5.1	5.2
WNW	2.2	.2	.5	.5								4.0	4.0
NW	.1	1.4										6.5	3.1
NNW	1.2	.2										2.3	2.5
VARBL													
CALM												41.7	
	32.2	10.9	2.0	2.3		.5						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 216

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73, 77-82 YEARS NGV
CLASS ALL WEATHER NORTH 22
CONDITION NOV 1951

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.3	0.7										2.0	3.0
NNE	1.4	0.7										2.1	3.0
NE	0.4											2.0	2.8
ENE	0.7	1.4	1.4									12.1	3.4
E	0.4	14.2	4.7									24.0	4.7
ESE	1.4	4.3										5.7	4.0
SE	0.7	0.7	1.4									2.0	5.5
SSE	0.7		1.4									2.1	5.0
S	1.4	1.4	0.7									3.5	4.2
SSW	0.7	0.7	1.4									2.0	5.0
SW	0.7											0.7	2.0
WSW	0.7	0.7		0.7								2.1	7.3
W		1.4	0.7	0.7								2.0	7.8
WNW				0.7								0.7	12.0
NW													
NNW	0.7											0.7	2.0
VARBL													
CALM												11.2	
	20.1	26.2	11.3	2.1								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 141

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 03115 IMPERIAL BEACH, CALIFORNIA 73-52 YEARS NOV
STATION NAME CLASS ALL MONTH
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	.5									3.5	4.1
NNE	1.6	1.1	.1									2.8	3.6
NE	1.6	1.1	.1									2.9	3.6
ENE	2.4	2.1	.7	.1								5.4	4.5
E	2.2	5.7	2.9	.6		.1						11.9	5.7
ESE	.9	1.6	.6	.5	.1							3.5	6.1
SE	.4	.4	.5	.1								1.3	6.2
SSE	.4	.1	.2	.2	.1							1.1	6.5
S	.3	1.1	1.1	.3		.1						3.3	6.4
SSW	.9	2.3	2.1	.1								5.3	5.8
SW	1.1	2.6	1.3	.2		.1						5.4	5.7
WSW	1.5	2.4	1.0	.4								5.4	5.3
W	2.1	6.2	3.2	1.0		.1						12.6	6.2
WNW	1.3	4.2	4.4	.4	.1							10.3	6.4
NW	1.6	2.9	3.3	.4								8.2	6.1
NNW	.7	1.9	1.3	.2								4.3	5.5
VARBL													
CALM												12.3	
	22.2	37.2	23.1	4.6	.3	.4						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1409

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 3115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH DEC
CLASS ALL WEATHER HOURS (L.S.T.) 01
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	50.0		50.0									100.0	5.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
	50.0		50.0									100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

0315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

DEC
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E	100.0											100.0	3.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.4										1.6	3.0
NNE	5.0	3.5										8.5	3.3
NE	5.0	4.7	.8									10.5	4.0
ENE	4.3	8.9	5.8									19.0	5.4
E	3.5	15.5	14.3	.8	1.2		.4					35.7	7.0
ESE	.8	2.7	.8									4.3	4.8
SE	.8	1.6	.4	.8								3.5	6.3
SSE	.4	.4		.4								1.2	7.3
S	.4		1.2									1.6	6.5
SSW			.4									.4	7.0
SW													
WSW		.4										.4	4.0
W			.8	.8								1.6	11.0
WNW			.4									.4	9.0
NW													
NNW		.4										.4	4.0
VARBL													
CALM												11.2	
	21.3	38.4	24.8	2.7	1.2		.4					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

258

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.7	4.5	.7									9.0	4.0
NNE	2.2	1.9	.4									4.5	3.8
NE	1.5	2.6	.4									4.5	4.2
ENE	2.6	1.9	1.5	.4								6.7	4.9
E	3.0	10.8	6.7	.7	.7			.4				22.4	7.0
ESE	1.9	1.5	.7	.4	.7							5.2	6.8
SE	1.5	.4	.4									2.2	4.2
SSE		.4	1.1		.4							1.9	10.2
S	1.5	1.1	1.9	1.1								5.6	6.7
SSW	.7	1.9	2.2									4.9	5.8
SW	1.5	.7	.4									2.6	3.7
WSW	1.9	.7	.7									3.4	4.1
W	1.5	1.1	1.1	1.5								5.2	7.1
WNW		2.2		.4								2.6	6.0
NW	1.9	1.9		.4								4.1	4.3
NNW	1.5	4.1	.4									6.0	4.8
VARBL													
CALM												9.7	
	26.9	37.7	18.7	4.9	1.9			.4				100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 268

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

37115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

DEC
MONTH

ALL WEATHER
CLASS

17
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.5	2.2									3.7	7.1
NNE													
NE													
ENE			.4									.4	7.0
E	.4		.4	.4			.4					1.5	14.0
ESE		.4			.4							.7	13.0
SE				.4								.4	14.0
SSE		.4			.4							.7	12.0
S		.7	1.9	.7								3.4	9.1
SSW	.7	2.6	6.3	1.1								10.8	7.9
SW	.7	2.2	3.0									6.7	6.7
WSW	2.6	4.1	3.4									10.1	5.2
W	2.2	12.7	10.9	1.1	.4							27.2	6.6
WNW	1.1	7.1	11.9	1.5								21.6	7.2
NW	.7	3.7	5.2	.7								10.4	6.7
NNW	.4	1.1	.7	.4								2.6	6.7
VARB.													
CALM												.4	
	7.0	36.6	46.3	6.3	1.1		.4					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

268

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0315 IMPERIAL BEACH, CALIFORNIA 73-82 YEARS DEC
STATION NAME CLASS MONTH
ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	.4									1.5	6.3
NNE		.4										.4	4.0
NE				.4								.4	13.0
NNE			.4									.4	7.0
E		1.1	.4			.4						1.7	9.6
ESE													
SE			.4									.4	2.0
SSE		.4										.4	6.0
S	2.2	2.2	1.1	.7								6.4	5.1
SSW	1.9	4.1	1.9	.7								8.6	6.0
SW	3.4	4.5	1.1									9.0	4.2
WSW	2.6	3.7	2.6	.7								9.0	5.5
W	5.6	2.4	2.6	.4								18.0	4.5
WNW	3.7	10.9	7.1		.4							22.1	5.8
NW	2.2	5.6	2.2									10.1	5.6
NNW	.7	2.2	1.1	.4								4.5	5.8
VARBL													
CALM												7.1	
	22.5	44.0	21.3	3.4	.4	.4						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 267

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5										2.4	2.4
NNE	.5	.5		.5								1.9	5.5
NE	.5	.5										.9	3.5
NNE	1.9	.5										2.4	2.4
E	.9	6.6	.9	1.0			.5					17.9	5.4
ESE	2.4	.5	.5									3.3	3.7
SE	2.4	.5	.5									3.3	3.0
SSE	1.9	.9	.5									3.3	3.4
S	1.4	2.4	.5	.5								4.7	4.8
SSW	1.4	.9	.5									2.8	4.5
SW			.9									.9	7.0
WSW													
W		.5	1.0	.5								2.8	9.3
WNW	.5	.5		.5								1.0	6.8
NW	1.4	1.9	.9									4.2	4.9
NNW	.9											.9	1.5
VARBL													
CALM												46.0	
	25.5	17.0	7.1	3.8			.5					100.0	2.6

TOTAL NUMBER OF OBSERVATIONS

212

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 07112 IMPERIAL BEACH, CALIFORNIA STATION NAME 73.77-82 YEARS

ALL WEATHER
CLASS

DEC
MONTH
22
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	1.6	.0									6.0	3.8
NNE	7.2	1.6										4.0	2.8
NE	4.0	1.6										6.0	3.1
ENE	4.0	7.9	1.6									14.3	4.0
E	2.4	12.7	1.6	.8	.8	.8						19.0	6.6
ESE		.8										.8	4.0
SE		1.6	.8									2.4	6.0
SSE	.8	.8										1.6	3.5
S	.4		.8		.8							2.4	3.3
SSW	.8	.8										1.6	4.0
SW	.8		.8									1.6	5.5
WSW			.8									.8	7.0
W				.8								.8	15.0
WNW			.8									.8	10.0
NW													
NNW	.8											.8	2.0
VARBL													
CALM												35.7	
	23.0	29.4	7.9	1.6	1.6	.8						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 126

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 DEC MONTH DEC

CLASS ALL WEATHER

CONDITION ALL

HOUSE (L E T) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.5	.7									3.2	4.5
NNE	1.7	1.4	.1	.1								3.2	3.6
NE	1.7	1.6	.7	.1								3.4	4.1
NNE	2.0	2.4	1.6	.1								6.5	4.9
E	2.2	7.3	4.4	.7	.4	.1	.2	.1				16.1	6.8
ESE	.2	1.0	.4	.1	.2							2.5	5.8
SE	.8	.6	.4	.2								1.9	5.3
SSE	.4	.5	.2	.1	.1							1.4	6.7
S	1.1	1.1	1.3	.6	.1							4.1	6.4
SSW	.9	1.9	2.1	.4								5.2	6.6
SW	1.1	1.4	1.1									3.6	5.1
WSW	1.4	1.6	1.4	.1								4.4	5.2
W	1.3	4.5	3.2	.9	.1							10.4	6.2
WNW	1.1	3.2	3.8	.4	.1							9.3	6.5
NW	1.1	2.4	1.6	.2								5.2	5.7
NNW	.7	1.5	.4	.1								2.8	5.2
VARIABLE													
CALM												15.5	
	21.1	35.0	22.7	4.0	1.0	.1	.2	.1				100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1402

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-42 YEARS ALL
CLASS ALL WEATHER
CONDITION ALL
HOURS (L S T) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.2	.0								1.7	4.2
NNE	.0	.0	.1	.0								1.4	3.9
NE	.0	.0	.1	.0								1.3	3.6
ENE	.0	1.2	.4	.0	.0							2.6	4.5
E	1.6	3.2	1.6	.3	.1	.0	.0	.0				7.0	6.0
ESE	.0	.7	.3	.2	.1	.0	.0					1.9	6.4
SE	.4	.3	.2	.1	.0							1.0	5.4
SSE	.4	.4	.2	.2	.1	.0						1.3	7.2
S	1.1	1.5	1.4	.8	.1	.0						5.1	7.0
SSW	1.3	2.2	2.6	.7	.0	.0						6.9	6.7
SW	1.7	2.6	2.6	.4	.0	.0						6.9	6.2
WSW	1.6	4.0	3.6	.5	.0							9.8	6.2
W	2.0	7.9	8.5	1.5	.1	.0						11.0	6.6
WNW	1.3	4.4	5.8	1.0	.0							13.5	6.6
NW	1.3	2.7	2.1	.4								6.6	5.9
NNW	.7	1.1	.5	.1								2.4	5.2
VARBL													
CALM												9.4	
	18.7	34.3	30.3	6.3	.6	.1	.0	.0				100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 17410

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

ALL
NORTH

INSTRUMENT
CLASS

CIG 200 TO 1400 FT R/VISBY 1/2 MI OR MORE,

CONDITION

AND/OR VISBY 1/2 TO 2-1/2 MI -/CIG 200 FT OR MORE

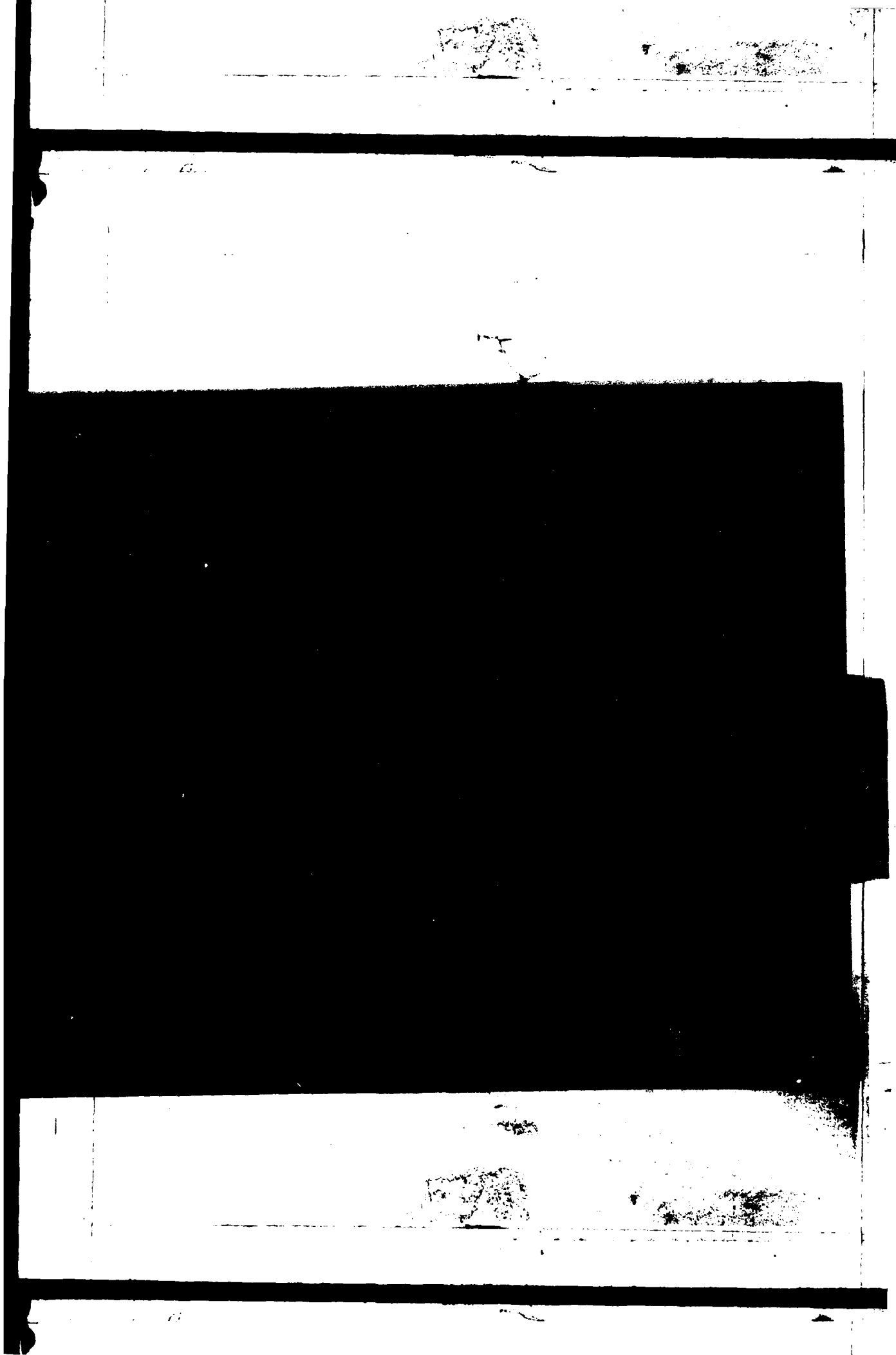
ALL
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.4	.1	.0								1.4	3.7
NNE	1.7	.3	.0									1.3	3.1
NE	.3	.0										1.3	3.1
ENE	.1	.2	.0									1.7	3.7
E	1.2	2.4	.5	.1			.1					4.2	5.1
ESE	.7	.4	.1	.0								1.3	4.2
SE	.5	.3	.1	.0								1.0	4.3
SSE	.0	.4	.2	.2	.1	.1						1.7	7.3
S	2.2	2.7	1.0	1.2	.2	.1						8.5	6.6
SSW	2.5	3.1	2.7	.4								9.6	5.5
SW	2.2	3.8	2.4	.2		.1						8.7	5.4
WSW	2.7	5.1	2.3	.3								10.3	5.2
W	4.7	2.7	4.0	.3		.1						12.7	5.3
WNW	3.0	4.8	2.6	.3	.0							11.3	5.1
NW	2.1	2.7	1.1	.1								6.1	4.6
NNW	.5	.7	.1	.0								1.0	4.2
VARBL													
CALM												11.1	
	24.7	38.9	19.1	3.3	.4	.2	.1					170.2	4.7

TOTAL NUMBER OF OBSERVATIONS

7271

SMOS



NOCD, Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

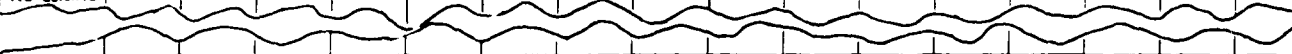
This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 1800															
IV 1500					91.0										92.6
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500										97.4					98.1
IV 400															
IV 300															
IV 200															
IV 100															
IV 0					95.4		96.9			98.3					100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10
Scattered converted to 3/10
Broken converted to 9/10
Overcast converted to 10/10
Obscured converted to 10/10

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
7710

STATION NAME
IMPERIAL BEACH, CALIFORNIA

77

YEARS

MONTH
JAN

1

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 20000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 18000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 16000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 14000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 12000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 10000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 9000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 8000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 7000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 6000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 5000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 3500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 3000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2000	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

4

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)14
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 20000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	60.0	80.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 5

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JAN

MONTH

07

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	46.1	54.3	56.1	56.1	57.3	57.6	59.5	59.5	59.5	59.9	59.9	59.9	64.2	64.2	64.2	64.2
≥ 20000	49.4	56.4	58.6	58.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 18000	47.4	59.4	60.6	60.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 16000	49.4	58.4	60.6	60.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 14000	47.8	58.7	61.0	61.0	62.1	62.5	64.3	64.3	64.3	64.7	64.7	64.7	65.1	65.1	65.1	65.1
IV 12000	51.6	59.5	61.7	61.7	62.8	63.2	65.1	65.1	65.1	65.4	65.4	65.4	65.8	65.8	65.8	65.8
IV 10000	51.3	61.2	62.5	62.5	63.6	63.9	65.8	65.8	65.8	66.2	66.2	66.2	66.5	66.5	66.5	66.5
IV 9000	51.3	61.2	62.5	62.5	63.6	63.9	65.8	65.8	65.8	66.2	66.2	66.2	66.5	66.5	66.5	66.5
IV 8000	54.3	63.2	65.4	65.4	66.5	66.9	68.8	68.8	68.8	69.1	69.1	69.1	69.5	69.5	69.5	69.5
IV 7000	54.7	63.6	65.8	65.8	66.9	67.3	69.1	69.1	69.1	69.5	69.5	69.5	69.9	69.9	69.9	69.9
IV 6000	54.7	63.6	65.8	65.8	66.9	67.3	69.1	69.1	69.1	69.5	69.5	69.5	69.9	69.9	69.9	69.9
IV 5000	55.7	63.9	66.2	66.2	67.3	67.7	69.5	69.5	69.5	69.9	69.9	69.9	70.3	70.3	70.3	70.3
IV 4500	55.8	64.7	66.9	66.9	68.4	68.4	70.3	70.3	70.3	70.6	70.6	70.6	71.0	71.0	71.0	71.0
IV 4000	57.3	66.5	69.1	69.1	70.3	70.6	72.9	72.9	72.9	73.2	73.2	73.2	73.6	73.6	73.6	73.6
IV 3500	57.5	66.8	71.4	71.4	72.5	72.9	75.1	75.1	75.1	75.5	75.5	75.5	75.8	75.8	75.8	75.8
IV 3000	61.7	71.4	74.0	74.0	75.1	75.5	77.7	77.7	77.7	78.1	78.1	78.1	78.4	78.4	78.4	78.4
IV 2500	63.2	75.1	77.7	77.7	78.8	79.2	81.4	81.8	81.8	82.5	82.5	82.5	82.9	82.9	82.9	82.9
IV 2000	65.8	76.8	81.8	82.2	83.3	83.6	85.9	86.3	86.3	87.0	87.0	87.0	87.4	87.4	87.4	87.4
IV 1800	66.2	79.6	82.5	82.9	84.0	84.4	86.8	87.0	87.0	87.7	87.7	87.7	88.1	88.1	88.1	88.1
IV 1500	66.2	82.2	85.5	86.3	87.4	87.7	90.0	90.3	90.3	91.1	91.1	91.1	91.5	91.5	91.5	91.5
IV 1200	66.4	82.2	85.5	86.3	87.4	87.7	90.0	90.3	90.3	91.1	91.1	91.1	91.5	91.5	91.5	91.5
IV 1000	66.4	82.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 900	66.4	83.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 800	66.4	83.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 700	66.4	83.6	88.1	88.9	91.8	92.2	94.4	94.8	94.8	95.5	95.5	95.5	95.9	95.9	95.9	95.9
IV 600	66.4	83.6	88.1	88.9	92.9	93.3	95.9	95.9	95.9	97.0	97.0	97.0	97.4	97.4	97.4	97.4
IV 500	66.9	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.4	97.4	97.4	97.8	97.8	97.8	97.8
IV 400	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.4	97.4	97.4	97.8	97.8	97.8	97.8
IV 300	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.8	97.8	97.8	98.1	98.1	98.1	98.1
IV 200	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9
IV 100	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9
IV 0	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

269

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1 1/8	≥ 1	≥ 3/4	≥ 5/16	≥ 1/4
NO CEILING	46.8	59.5	67.6	63.1	64.1	64.8	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 20000	50.8	64.8	65.9	68.7	72.1	70.8	70.8	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 18000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 16000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 14000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 12000	51.1	65.5	66.6	69.4	70.8	71.5	71.5	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 10000	52.1	66.6	67.6	70.4	72.2	72.9	73.2	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 9000	52.1	66.6	67.6	70.4	72.2	72.9	73.2	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
≥ 8000	53.5	68.0	70.1	72.9	74.7	75.4	75.7	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥ 7000	53.9	69.4	70.4	73.2	75.0	75.7	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 6000	54.2	69.7	71.1	73.9	75.7	76.4	76.8	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 5000	54.9	70.4	71.8	74.7	76.4	77.1	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4500	54.9	70.4	71.8	74.7	76.4	77.1	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4000	56.3	72.2	73.6	76.4	78.2	78.9	79.2	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 3500	59.5	74.7	76.1	78.9	80.6	81.3	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 3000	62.3	79.2	81.6	83.5	85.2	85.9	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2500	64.4	81.3	82.8	85.6	87.3	88.4	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2000	66.6	84.5	85.9	88.7	90.5	91.6	91.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1800	66.6	84.5	85.9	88.7	90.5	91.6	91.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 1500	67.6	85.9	86.3	89.0	93.7	94.0	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥ 1200	68.0	86.6	88.7	91.9	94.4	95.4	95.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1000	68.3	87.0	89.1	92.3	94.7	95.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900	68.3	87.0	89.1	92.3	94.7	95.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800	68.3	87.0	89.1	92.6	95.1	96.1	96.5	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 700	68.3	87.0	89.1	92.6	95.4	96.5	96.8	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 600	68.3	87.0	89.1	92.6	95.4	97.2	97.5	98.6	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

284

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)15
HOURS (L & Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.1	58.1	60.2	61.6	62.3	63.0	63.0	63.4	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 20000	56.7	64.8	68.0	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 18000	56.7	64.8	68.0	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 16000	56.7	64.8	68.0	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 14000	56.7	64.8	68.0	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 12000	56.7	64.8	68.0	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 10000	58.1	67.3	70.4	72.2	73.2	73.9	73.9	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 9000	58.1	67.3	70.4	72.2	73.2	73.9	73.9	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 8000	60.6	70.1	73.2	75.0	76.1	76.8	76.8	77.1	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 7000	60.6	70.1	73.2	75.0	76.1	76.8	76.8	77.1	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 6000	61.3	70.8	73.9	75.7	76.8	77.5	77.5	77.8	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 5000	62.3	72.2	75.4	77.1	78.2	78.9	78.9	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4500	62.3	72.2	75.4	77.1	78.2	78.9	78.9	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4000	64.4	74.7	77.8	79.6	80.6	81.3	81.3	81.7	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 3500	66.6	76.8	80.3	82.0	83.1	83.8	83.8	84.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 3000	68.7	78.9	82.4	84.2	85.2	85.9	85.9	86.3	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 2500	70.4	81.3	84.9	86.6	87.7	88.4	88.4	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 2000	73.2	84.5	88.4	90.1	91.2	91.9	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1800	73.2	84.5	88.4	90.1	91.2	91.9	91.9	92.3	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1500	75.4	86.6	90.5	92.3	93.3	94.0	94.0	94.4	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1200	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 1000	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 900	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 800	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 700	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 600	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 500	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 400	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 300	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 200	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 100	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 0	76.4	87.7	91.9	93.7	94.7	95.4	95.4	95.8	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 284

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	57.4	57.3	61.8	63.0	63.9	63.9	64.3	64.3	64.3	64.6	64.5	64.6	64.6	64.6	64.6	64.5
≥ 20000	55.4	55.4	67.9	7.0	70.7	70.7	71.4	71.4	71.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 18000	55.4	66.4	68.9	71.4	71.4	71.8	72.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 16000	56.4	66.4	68.9	71.4	71.8	71.8	72.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 14000	57.9	67.9	71.4	72.5	73.2	73.2	73.9	73.9	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 12000	58.6	68.6	71.4	73.2	73.9	73.9	74.6	74.6	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 10000	61.1	71.4	74.6	76.4	77.1	77.1	77.9	77.9	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 9000	61.4	71.8	74.6	76.8	77.5	77.5	78.2	78.2	78.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 8000	62.5	73.2	76.4	78.0	79.3	79.6	80.4	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 7000	62.9	73.6	76.8	78.9	79.6	80.0	80.7	80.7	80.7	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 6000	63.2	73.9	77.1	79.3	80.0	80.4	81.1	81.1	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥ 5000	63.9	74.6	77.9	80.0	80.7	81.1	81.8	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 4500	64.3	75.0	78.2	80.4	81.1	81.4	82.1	82.1	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	66.1	76.8	80.0	82.1	82.9	83.2	83.9	83.9	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	68.2	78.9	82.1	84.3	85.0	85.4	86.1	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 3000	69.6	81.1	84.3	86.4	87.1	87.5	88.2	88.2	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2500	72.5	83.9	87.1	89.3	90.0	90.4	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2000	73.2	84.6	87.9	90.0	91.1	91.4	92.1	92.1	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1800	73.6	85.0	88.2	90.4	91.4	91.8	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500	74.6	87.1	90.4	92.5	93.6	93.9	94.6	94.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	75.4	88.2	92.1	94.3	95.7	96.1	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 1000	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 900	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 800	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 600	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 300	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 200	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 100	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 0	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	36.1	57.5	59.7	61.5	60.9	62.9	67.7	60.9	67.4	60.9	60.9	63.7	60.9	60.5	60.9	61.5
≥ 20000	37.3	57.7	61.8	62.7	63.1	63.1	63.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 18000	37.8	60.1	62.2	63.1	63.5	63.5	63.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 16000	37.8	60.1	62.2	63.1	63.5	63.5	63.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 14000	38.0	61.6	64.0	64.8	65.2	65.2	65.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 12000	38.1	62.7	64.8	65.7	66.1	66.1	66.5	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 10000	38.5	64.4	66.5	67.4	67.8	67.8	68.2	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 9000	38.5	64.4	66.5	67.4	67.8	67.8	68.2	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 8000	40.2	66.1	68.2	69.1	69.5	69.5	70.0	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 7000	41.2	67.0	69.1	70.0	70.4	70.4	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 6000	41.6	67.4	69.5	70.4	70.8	70.8	71.2	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 5000	42.5	68.7	70.8	71.7	72.1	72.1	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IV 4500	43.4	70.0	72.1	73.0	73.4	73.4	73.8	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 4000	45.5	72.1	74.3	75.5	76.0	76.0	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 3500	46.4	73.4	75.5	76.8	77.3	77.3	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 3000	48.5	76.8	79.1	80.4	81.1	81.1	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 2500	51.2	79.4	82.0	83.3	84.1	84.1	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 2000	51.5	82.4	85.0	86.3	87.1	87.1	87.6	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 1800	51.7	82.8	85.4	86.7	87.6	87.6	88.0	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 1500	52.8	85.4	88.8	90.1	91.9	92.3	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IV 1200	52.7	86.7	90.6	91.9	94.0	94.4	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 1000	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 900	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 800	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 700	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 600	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 500	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 400	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 300	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 200	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 100	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 0	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS

233

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

OFFICIAL BEACH, CALIFORNIA

STATION NAME

73-74, 75, 8 - 02

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

22

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.5	52.5	53.3	54.7	56.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000	24.5	54.7	55.7	56.6	58.5	58.5	59.4	60.4	60.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 18000	24.5	54.7	56.6	57.6	59.4	59.4	61.3	61.3	61.3	62.3	63.2	63.2	63.2	63.2	63.2	63.2
IV 16000	24.5	54.7	56.6	57.6	59.4	59.4	61.3	61.3	61.3	62.3	63.2	63.2	63.2	63.2	63.2	63.2
IV 14000	24.5	55.7	57.6	58.5	60.4	60.4	62.3	62.3	62.3	63.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 12000	24.5	55.7	57.6	58.5	60.4	60.4	62.3	62.3	62.3	63.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 10000	24.5	57.6	59.4	60.4	62.3	62.3	64.2	64.2	64.2	65.1	66.0	66.0	66.0	66.0	66.0	66.0
IV 9000	24.5	57.6	59.4	60.4	62.3	62.3	64.2	64.2	64.2	65.1	66.0	66.0	66.0	66.0	66.0	66.0
IV 8000	25.5	59.4	61.3	62.3	64.2	64.2	66.0	66.0	66.0	67.0	67.9	67.9	67.9	67.9	67.9	67.9
IV 7000	25.5	59.4	61.3	62.3	64.2	64.2	66.0	66.0	66.0	67.0	67.9	67.9	67.9	67.9	67.9	67.9
IV 6000	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 5000	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4500	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4000	27.4	65.1	67.0	67.9	69.8	69.8	71.7	71.7	71.7	72.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 3500	30.2	67.9	69.8	70.8	72.6	72.6	74.5	74.5	74.5	75.5	76.4	76.4	76.4	76.4	76.4	76.4
IV 3000	31.1	68.9	70.8	71.7	73.6	73.6	75.5	75.5	75.5	76.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 2500	34.0	75.5	77.4	78.3	80.2	80.2	82.1	82.1	82.1	83.0	84.0	84.0	84.0	84.0	84.0	84.0
IV 2000	37.7	81.1	83.0	84.0	85.9	85.9	87.7	87.7	87.7	88.7	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	37.7	81.1	83.0	84.0	85.9	85.9	87.7	87.7	87.7	88.7	89.6	89.6	89.6	89.6	89.6	89.6
IV 1500	37.7	84.0	85.9	86.8	88.7	88.7	90.6	90.6	90.6	91.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1200	37.7	84.0	85.9	86.8	88.7	88.7	90.6	90.6	90.6	91.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1000	37.7	84.0	85.9	86.8	88.7	88.7	90.6	90.6	90.6	91.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 900	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 800	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 700	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 600	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 500	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 400	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 300	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 200	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 100	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 0	37.7	86.8	88.7	89.6	91.5	91.5	93.4	93.4	93.4	94.3	95.3	95.3	95.3	95.3	95.3	95.3

TOTAL NUMBER OF OBSERVATIONS

106

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.1	51.5	59.7	63.0	61.5	61.8	62.3	62.5	62.5	62.8	62.9	62.9	62.9	62.9	62.9	62.9
≥ 20000	44.3	52.2	64.3	65.7	66.9	67.2	67.8	68.1	68.1	68.4	68.5	68.5	68.5	68.5	68.5	68.5
18000	42.5	62.5	64.7	66.1	67.2	67.6	68.2	68.5	68.5	68.8	68.9	68.9	68.9	68.9	68.9	68.9
16000	42.6	62.5	64.7	66.1	67.2	67.6	68.3	68.5	68.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9
14000	42.1	63.2	65.4	66.7	68.1	68.3	69.1	69.3	69.3	69.6	69.7	69.7	69.7	69.7	69.7	69.7
12000	42.1	63.2	65.4	66.7	68.1	68.3	69.6	69.9	69.9	70.2	70.3	70.3	70.3	70.3	70.3	70.3
10000	51.9	65.5	67.7	69.2	70.4	70.7	71.5	71.7	71.7	72.1	72.2	72.2	72.2	72.2	72.2	72.2
9000	51.9	65.5	67.8	69.3	70.4	70.8	71.5	71.8	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2
8000	52.6	67.8	71.1	71.6	72.9	73.2	73.9	74.2	74.2	74.5	74.6	74.6	74.6	74.6	74.6	74.6
7000	52.9	68.2	70.5	72.0	73.2	73.6	74.3	74.6	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1
6000	53.3	68.7	71.1	72.6	73.7	74.1	74.9	75.2	75.2	75.5	75.6	75.6	75.6	75.6	75.6	75.6
5000	54.1	69.5	71.9	73.4	74.5	75.0	75.7	76.0	76.0	76.3	76.4	76.4	76.4	76.4	76.4	76.4
4500	54.3	69.9	72.3	73.8	75.0	75.4	76.1	76.4	76.4	76.7	76.8	76.8	76.8	76.8	76.8	76.8
4000	54.1	70.1	72.4	73.9	75.1	75.5	76.2	76.6	76.6	76.9	77.0	77.0	77.0	77.0	77.0	77.0
3500	54.7	74.1	76.6	78.2	79.3	79.7	80.6	80.8	80.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2
3000	60.3	76.9	79.4	81.0	82.2	82.6	83.4	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2500	62.5	79.8	82.5	84.0	85.3	85.7	86.6	87.0	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4
2000	64.4	82.9	85.6	87.2	88.5	89.1	90.0	90.3	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1800	64.6	83.1	85.9	87.5	88.8	89.4	90.2	90.6	90.6	91.0	91.1	91.1	91.1	91.1	91.1	91.1
1500	65.7	85.3	88.4	90.1	91.6	92.2	93.1	93.4	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9
1200	66.0	86.1	89.6	91.3	93.0	93.6	94.5	94.8	94.8	95.2	95.3	95.3	95.3	95.3	95.3	95.3
1000	66.4	87.2	90.9	92.6	94.9	95.4	96.3	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1
900	66.4	87.2	90.9	92.6	94.9	95.5	96.5	96.8	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3
800	66.4	87.2	90.9	92.6	95.1	95.7	96.7	97.0	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5
700	66.4	87.3	91.1	93.0	95.3	95.9	96.9	97.3	97.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8
600	66.4	87.3	91.1	93.1	95.6	96.5	97.4	97.8	97.8	98.4	98.4	98.4	98.4	98.4	98.4	98.4
500	66.4	87.3	91.1	93.3	95.8	96.8	97.9	98.3	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9
400	66.4	87.4	91.1	93.4	95.9	96.9	98.0	98.4	98.4	99.1	99.1	99.1	99.1	99.1	99.1	99.1
300	66.4	87.4	91.2	93.5	96.0	97.0	98.1	98.5	98.5	99.2	99.3	99.3	99.3	99.3	99.3	99.3
200	66.4	87.4	91.2	93.5	96.1	97.1	98.1	98.5	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
100	66.4	87.4	91.2	93.5	96.1	97.1	98.1	98.5	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0	66.4	87.4	91.2	93.5	96.1	97.1	98.1	98.5	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

1465

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

75

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

67
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	41.7	55.6	56.8	57.2	58.7	58.9	60.5	62.0	62.0	62.6	62.6	62.6	62.6	62.6	63.7
≥ 20000	43.2	56.1	55.3	54.7	61.5	61.3	63.0	65.1	65.0	65.0	65.0	65.0	65.0	65.0	65.4
≥ 18000	43.2	55.0	59.3	54.7	60.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4
≥ 16000	43.2	55.0	59.3	54.7	60.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4
≥ 14000	43.2	55.0	59.3	54.7	60.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4
≥ 12000	44.0	61.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5
≥ 10000	44.0	61.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5
≥ 9000	44.0	61.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5
≥ 8000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1
≥ 7000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1
≥ 6000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1
≥ 5000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1
≥ 4500	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1
≥ 4000	47.7	63.0	64.2	64.6	65.4	66.3	67.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.4
≥ 3500	49.2	63.4	65.0	65.4	66.3	67.1	68.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.2
≥ 3000	49.4	66.3	68.3	69.4	70.0	70.8	72.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.9
≥ 2500	51.4	67.1	71.2	71.2	72.9	73.7	75.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.8
≥ 2000	53.1	71.0	74.1	74.9	75.7	76.5	78.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.7
≥ 1800	53.1	71.0	74.1	74.9	75.7	76.5	78.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.7
≥ 1500	55.1	74.3	77.0	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2
≥ 1200	55.1	74.3	77.0	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2
≥ 1000	55.1	74.3	77.0	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2
≥ 900	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 800	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 700	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 600	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 500	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 400	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 300	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 200	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 100	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9
≥ 0	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.9

TOTAL NUMBER OF OBSERVATIONS 243

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.4	55.2	55.9	57.1	59.8	60.5	61.3	62.5	62.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	48.7	60.9	62.5	63.6	66.3	67.4	68.2	69.4	69.4	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 18000	48.7	60.9	62.5	63.6	66.3	67.8	68.6	69.7	69.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 16000	48.7	60.9	62.5	63.6	66.3	67.8	68.6	69.7	69.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 14000	49.8	62.1	64.0	65.1	67.8	69.4	70.1	71.3	71.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 12000	51.3	64.0	66.7	67.8	70.9	72.4	73.2	74.3	74.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000	51.3	64.0	66.7	67.8	70.9	72.4	73.2	74.3	74.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 9000	51.3	64.0	66.7	67.8	70.9	72.4	73.2	74.3	74.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 8000	52.1	64.8	67.8	69.0	72.0	73.6	74.3	75.5	75.5	76.6	77.0	77.0	77.0	77.0	77.0	77.0
≥ 7000	52.1	64.8	67.8	69.0	72.0	73.6	74.3	75.5	75.5	76.6	77.0	77.0	77.0	77.0	77.0	77.0
≥ 6000	52.5	65.1	68.2	69.4	72.4	74.0	74.7	75.9	75.9	77.0	77.4	77.4	77.4	77.4	77.4	77.4
≥ 5000	52.5	65.1	68.2	69.4	72.4	74.0	74.7	75.9	75.9	77.0	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500	52.5	65.1	68.2	69.4	72.4	74.0	74.7	75.9	75.9	77.0	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000	53.3	65.9	69.4	70.5	73.6	75.1	75.9	77.0	77.0	78.2	78.5	78.5	78.5	78.5	78.5	78.5
≥ 3500	54.4	67.1	70.9	72.0	75.1	76.6	77.4	78.5	78.5	79.7	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000	56.7	69.7	73.6	74.7	77.8	79.3	80.1	81.2	81.2	82.4	82.8	82.8	82.8	82.8	82.8	82.8
≥ 2500	59.8	72.7	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
≥ 2000	59.8	72.7	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800	59.8	72.7	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1500	61.3	75.9	80.1	81.6	85.4	87.0	87.7	88.9	88.9	90.0	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1200	61.7	77.0	81.2	82.4	86.6	88.1	88.9	90.0	90.0	91.2	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 900	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 800	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 600	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 500	63.2	78.9	83.2	85.4	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
≥ 400	63.6	79.7	84.3	87.7	92.0	93.9	95.4	97.3	97.3	98.5	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300	63.6	79.7	84.3	87.7	92.0	93.9	95.4	97.3	97.3	98.5	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	63.6	79.7	84.3	87.7	92.0	93.9	95.4	97.3	97.3	98.5	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100	63.6	79.7	84.3	87.7	92.0	93.9	95.4	97.3	97.3	98.5	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	63.6	79.7	84.3	87.7	92.0	93.9	95.4	97.3	97.3	98.5	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS

261

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-32

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.3	55.9	65.1	65.7	67.4	68.2	69.4	70.1	70.1	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 20000	53.6	64.0	68.2	67.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 18000	53.6	64.0	68.2	67.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 16000	53.6	64.0	68.2	67.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 14000	54.0	64.8	69.0	73.5	72.8	73.6	75.1	75.9	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 12000	55.3	66.7	71.9	72.6	75.1	75.9	77.4	78.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 10000	57.1	67.6	72.3	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 9000	57.1	67.6	72.3	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 8000	57.1	67.6	72.3	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 7000	57.1	67.6	72.3	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 6000	59.3	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 5000	59.3	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 4500	59.3	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 4000	60.9	72.0	76.3	78.2	80.5	81.2	82.8	83.5	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 3500	62.8	74.0	78.2	80.1	82.4	83.1	84.7	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 3000	64.0	75.1	79.3	81.2	83.5	84.3	85.8	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 2500	65.5	77.0	81.2	83.1	85.8	86.6	88.1	88.9	88.9	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 2000	67.8	79.3	83.9	85.8	88.5	89.3	90.8	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1800	67.8	79.3	83.9	85.8	88.5	89.3	90.8	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1500	69.4	81.6	86.2	88.1	90.8	91.6	93.1	93.9	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1200	69.7	83.1	87.7	89.7	92.3	93.1	95.0	95.8	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1000	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 800	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 700	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 600	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 500	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 400	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 300	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 200	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 100	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 0	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

261

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)15
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	57.8	57.4	67.9	61.7	63.3	63.7	64.8	64.8	64.9	64.8	65.6	65.6	65.6	65.6	65.6	65.6
≥ 20000	54.7	66.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000	54.7	66.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
≥ 16000	54.7	66.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000	54.7	66.8	69.5	71.1	73.1	73.4	74.6	74.6	74.6	74.6	75.4	75.4	75.4	75.4	75.4	75.4
≥ 12000	57.8	69.9	72.7	74.2	76.2	76.6	77.7	77.7	77.7	77.7	78.5	78.5	78.5	78.5	78.5	78.5
≥ 10000	59.7	71.1	73.8	75.4	77.3	77.7	78.9	78.9	78.9	78.9	79.7	79.7	79.7	79.7	79.7	79.7
≥ 9000	59.7	71.1	73.8	75.4	77.3	77.7	78.9	78.9	78.9	78.9	79.7	79.7	79.7	79.7	79.7	79.7
≥ 8000	60.6	72.7	75.4	77.0	78.9	79.3	80.5	80.5	80.5	80.5	81.3	81.3	81.3	81.3	81.3	81.3
≥ 7000	60.6	73.4	76.2	77.7	79.7	80.1	81.3	81.3	81.3	81.3	82.1	82.1	82.1	82.1	82.1	82.1
≥ 6000	62.1	74.6	77.3	78.9	80.9	81.3	82.4	82.4	82.4	82.4	83.2	83.2	83.2	83.2	83.2	83.2
≥ 5000	62.9	75.8	78.9	81.3	82.4	82.8	84.0	84.0	84.0	84.0	84.8	84.8	84.8	84.8	84.8	84.8
≥ 4500	62.9	75.8	78.9	81.3	82.4	82.8	84.0	84.0	84.0	84.0	84.8	84.8	84.8	84.8	84.8	84.8
≥ 4000	63.3	76.2	79.7	81.3	83.2	83.6	84.8	84.8	84.8	84.8	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3500	63.3	76.2	79.7	81.3	83.2	83.6	84.8	84.8	84.8	84.8	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3000	64.5	77.3	80.9	82.4	84.4	85.2	86.3	86.3	86.3	86.3	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500	66.4	79.7	83.2	84.8	86.7	87.5	88.7	88.7	88.7	88.7	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2000	66.8	81.3	84.8	85.6	87.5	88.3	89.5	89.5	89.5	89.5	90.2	90.2	90.2	90.2	90.2	90.2
≥ 1800	66.8	80.9	84.8	85.9	87.9	88.7	89.8	89.8	89.8	89.8	90.6	90.6	90.6	90.6	90.6	90.6
≥ 1500	69.8	83.2	87.1	88.7	91.0	91.6	93.0	93.0	93.0	93.0	93.8	93.8	93.8	93.8	93.8	93.8
≥ 1200	69.1	84.4	88.3	89.8	92.2	93.0	94.1	94.1	94.1	94.1	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1000	69.5	85.2	89.1	91.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
≥ 900	69.5	85.2	89.1	91.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
≥ 800	69.5	85.2	89.1	91.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
≥ 700	69.5	85.2	89.1	91.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
≥ 600	69.5	85.2	89.1	91.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
≥ 500	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
≥ 0	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

256

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

FLB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	38.6	56.1	59.5	61.9	63.3	64.2	65.6	66.1	66.1	66.1	67.0	67.0	67.0	67.0	67.0	67.0
≥ 20000	32.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 18000	35.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 16000	39.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 14000	39.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 12000	47.5	62.8	64.7	67.0	68.4	69.3	70.7	71.2	71.2	71.2	72.1	72.1	72.1	72.1	72.1	72.1
IV 10000	42.3	65.6	67.4	69.8	71.2	72.1	73.5	74.0	74.0	74.0	74.9	74.9	74.9	74.9	74.9	74.9
IV 9000	42.3	65.6	67.4	69.8	71.2	72.1	73.5	74.0	74.0	74.0	74.9	74.9	74.9	74.9	74.9	74.9
IV 8000	43.7	67.4	69.3	71.6	73.0	74.0	75.4	75.8	75.8	75.8	76.7	76.7	76.7	76.7	76.7	76.7
IV 7000	44.2	67.9	69.8	72.1	73.5	74.4	75.8	76.3	76.3	76.3	77.2	77.2	77.2	77.2	77.2	77.2
IV 6000	44.2	67.9	69.8	72.1	73.5	74.4	75.8	76.3	76.3	76.3	77.2	77.2	77.2	77.2	77.2	77.2
IV 5000	44.2	68.4	70.2	72.6	74.0	74.9	76.3	76.7	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 4500	44.2	68.4	70.2	72.6	74.0	74.9	76.3	76.7	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 4000	44.7	68.8	70.7	73.0	74.4	75.4	76.7	77.2	77.2	77.2	78.1	78.1	78.1	78.1	78.1	78.1
IV 3500	45.6	69.8	71.6	74.0	75.4	76.3	77.7	78.1	78.1	78.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 3000	46.5	71.6	73.5	75.8	77.2	78.1	79.5	80.0	80.0	80.0	80.9	80.9	80.9	80.9	80.9	80.9
IV 2500	47.4	74.0	75.8	78.1	79.5	80.5	81.9	82.3	82.3	82.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 2000	49.3	77.2	79.1	81.4	83.3	84.2	85.6	86.1	86.1	86.1	87.0	87.0	87.0	87.0	87.0	87.0
IV 1800	47.3	77.2	79.1	81.4	83.3	84.2	85.6	86.1	86.1	86.1	87.0	87.0	87.0	87.0	87.0	87.0
IV 1500	50.7	81.4	83.3	86.1	87.9	88.8	90.2	90.7	90.7	90.7	91.6	91.6	91.6	91.6	91.6	91.6
IV 1200	51.2	83.3	85.1	87.9	89.8	90.7	92.1	92.6	92.6	92.6	93.5	93.5	93.5	93.5	93.5	93.5
IV 1000	51.2	84.7	87.0	89.8	92.1	93.0	94.4	94.9	94.9	94.9	95.8	95.8	95.8	95.8	95.8	95.8
IV 900	51.2	84.7	87.0	89.8	92.1	93.0	94.4	94.9	94.9	94.9	95.8	95.8	95.8	95.8	95.8	95.8
IV 800	51.6	85.1	87.4	90.2	92.6	93.5	94.9	95.4	95.4	95.4	96.3	96.3	96.3	96.3	96.3	96.3
IV 700	51.6	85.1	87.9	90.7	93.5	94.4	95.8	96.3	96.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2
IV 600	51.6	85.1	87.9	90.7	93.5	94.4	95.8	96.3	96.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2
IV 500	51.6	85.6	88.4	91.2	94.0	95.4	96.7	97.2	97.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 400	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.5	99.5	99.5	99.5	99.5	99.5
IV 300	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.5	99.5	99.5	99.5	99.5	99.5
IV 100	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.5	99.5	99.5	99.5	99.5	99.5
IV 0	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.5	99.5	99.5	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS

215

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-74, 76, 8, -02

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.8	50.5	54.7	57.9	57.9	57.9	61.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	16.2	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 18000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 16000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 14000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 12000	17.5	53.7	59.4	62.1	62.1	62.1	65.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 10000	19.1	54.7	60.0	63.2	63.2	63.2	66.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 9000	19.0	54.7	60.0	63.2	63.2	63.2	66.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 8000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 7000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4500	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500	24.2	62.1	67.4	70.5	70.5	70.5	73.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
≥ 3000	27.4	67.4	72.6	75.8	75.8	75.8	79.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 2500	27.4	68.4	73.7	76.8	76.8	76.8	80.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 2000	27.4	71.6	76.8	80.0	80.0	80.0	83.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1800	27.4	71.6	76.8	80.0	80.0	80.0	83.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1500	27.4	73.7	80.0	83.2	83.2	83.2	86.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1200	27.4	76.8	83.2	86.3	86.3	86.3	89.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000	27.4	80.0	86.3	89.5	89.5	89.5	92.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 900	27.4	80.0	86.3	89.5	89.5	89.5	92.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 700	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 600	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 500	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 400	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 100	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 0	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

95

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.3	57.4	59.4	60.0	62.1	62.8	64.1	65.1	65.1	65.3	65.6	65.6	65.6	65.6	65.7	65.7
≥ 20000	46.1	61.6	64.0	65.5	67.1	67.9	69.3	70.3	70.3	70.5	70.8	70.8	70.8	70.8	70.9	70.9
≥ 18000	46.1	61.6	64.0	65.5	67.1	67.9	69.4	70.4	70.4	70.6	70.9	70.9	70.9	70.9	71.0	71.0
≥ 16000	46.1	61.6	64.0	65.5	67.1	67.9	69.4	70.4	70.4	70.6	70.9	70.9	70.9	70.9	71.0	71.0
≥ 14000	46.5	62.2	64.8	66.3	68.0	68.8	70.3	71.3	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9
≥ 12000	48.1	63.9	66.6	68.2	69.9	70.7	72.2	73.1	73.1	73.4	73.8	73.8	73.8	73.8	73.9	73.9
≥ 10000	49.0	65.0	67.8	69.4	71.2	72.0	73.4	74.4	74.4	74.7	75.1	75.1	75.1	75.1	75.2	75.2
≥ 9000	49.0	65.0	67.8	69.4	71.2	72.0	73.4	74.4	74.4	74.7	75.1	75.1	75.1	75.1	75.2	75.2
≥ 8000	50.3	66.5	69.4	71.0	72.8	73.6	75.0	76.0	76.0	76.3	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000	50.5	66.7	69.6	71.2	73.0	73.8	75.2	76.2	76.2	76.5	76.9	76.9	76.9	76.9	77.0	77.0
≥ 6000	51.0	67.3	70.1	71.7	73.5	74.3	75.8	76.7	76.7	77.0	77.4	77.4	77.4	77.4	77.5	77.5
≥ 5000	51.4	67.9	70.9	72.5	74.3	75.1	76.5	77.5	77.5	77.8	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4500	51.4	67.9	70.9	72.5	74.3	75.1	76.5	77.5	77.5	77.8	78.2	78.2	78.2	78.2	78.2	78.2
≥ 4000	52.0	68.5	71.6	73.1	74.9	75.8	77.2	78.2	78.2	78.5	78.8	78.8	78.8	78.8	78.9	78.9
≥ 3500	53.1	69.6	72.8	74.4	76.2	77.0	78.5	79.4	79.4	79.7	80.1	80.1	80.1	80.1	80.2	80.2
≥ 3000	54.6	71.0	75.1	76.7	78.5	79.4	80.9	81.8	81.8	82.1	82.5	82.5	82.5	82.5	82.6	82.7
≥ 2500	56.2	74.0	77.3	79.0	80.9	81.8	83.2	84.2	84.2	84.5	84.8	84.8	84.8	84.8	84.9	85.0
≥ 2000	57.5	76.1	79.6	81.2	83.3	84.2	85.6	86.6	86.6	86.9	87.2	87.2	87.2	87.2	87.3	87.4
≥ 1800	57.5	76.1	79.6	81.2	83.3	84.2	85.6	86.6	86.6	86.9	87.2	87.2	87.2	87.2	87.3	87.4
≥ 1600	59.1	78.9	82.6	84.5	86.7	87.6	89.1	90.2	90.2	90.5	90.8	90.8	90.8	90.8	90.9	91.0
≥ 1400	59.4	80.3	84.0	86.0	88.1	89.0	90.6	91.7	91.7	92.1	92.6	92.6	92.6	92.6	92.6	92.7
≥ 1200	59.9	81.9	85.7	87.9	90.4	91.4	93.1	94.3	94.3	94.7	95.3	95.3	95.3	95.3	95.4	95.4
≥ 1000	60.1	82.1	85.9	88.1	90.5	91.5	93.2	94.5	94.5	95.0	95.5	95.5	95.5	95.5	95.6	95.7
≥ 900	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 800	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 700	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 600	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 500	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 400	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
≥ 300	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.3	98.3	98.3	98.4	98.5	98.6
≥ 200	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.3	98.3	98.3	98.4	98.5	98.6
≥ 100	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.3	98.3	98.3	98.4	98.5	98.6
≥ 0	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.3	98.3	98.3	98.4	98.5	98.6

TOTAL NUMBER OF OBSERVATIONS

1332

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE 01
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

YEARS

MAP

NORTH

04

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)~7
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.5	46.2	48.7	49.1	50.2	50.9	51.3	51.3	51.3	51.6	52.0	52.4	52.0	52.0	53.1	53.1
≥ 20000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 18000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 16000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 14000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 12000	36.7	51.3	54.9	55.6	57.1	57.8	58.2	58.2	58.2	58.6	58.9	58.9	58.9	58.9	59.9	59.9
IV 10000	36.7	51.6	55.3	56.0	57.5	58.2	58.6	58.6	58.6	58.9	59.3	59.3	59.3	59.3	60.4	60.4
IV 9000	36.7	51.6	55.3	56.0	57.5	58.2	58.6	58.6	58.6	58.9	59.3	59.3	59.3	59.3	60.4	60.4
IV 8000	38.2	53.1	56.7	57.5	58.9	59.6	60.0	60.0	60.0	60.4	60.7	60.7	60.7	60.7	61.8	61.8
IV 7000	38.2	53.1	56.7	57.5	58.9	59.6	60.0	60.0	60.0	60.4	60.7	60.7	60.7	60.7	61.8	61.8
IV 6000	38.2	53.1	56.7	57.5	58.9	59.6	60.0	60.0	60.0	60.4	60.7	60.7	60.7	60.7	61.8	61.8
IV 5000	38.9	53.6	57.5	58.2	60.0	60.7	61.1	61.1	61.1	61.5	61.8	61.8	61.8	61.8	62.9	62.9
IV 4500	39.3	54.0	58.2	58.9	60.7	61.5	61.8	61.8	61.8	62.2	62.6	62.6	62.6	62.6	63.6	63.6
IV 4000	42.2	57.5	61.1	61.8	63.6	64.4	64.7	64.7	64.7	65.1	65.5	65.5	65.5	65.5	66.6	66.6
IV 3500	43.6	59.6	63.3	64.0	65.8	66.6	66.9	66.9	66.9	67.3	67.6	67.6	67.6	67.6	68.7	68.7
IV 3000	45.8	63.0	67.6	68.4	70.2	70.9	71.3	71.6	71.6	72.0	72.4	72.4	72.4	72.4	73.5	73.5
IV 2500	48.1	67.3	71.6	72.7	74.6	75.3	75.6	76.0	76.0	76.4	76.7	76.7	76.7	76.7	77.8	77.8
IV 2000	53.1	73.1	77.5	78.6	80.4	81.1	81.5	81.8	81.8	82.2	82.6	82.6	82.6	82.6	83.6	83.6
IV 1800	53.8	74.2	78.6	79.6	81.5	82.2	82.6	82.9	82.9	83.3	83.6	83.6	83.6	83.6	84.7	84.7
IV 1500	55.6	76.4	80.7	82.2	84.4	85.5	85.8	86.2	86.2	86.6	86.9	86.9	86.9	86.9	88.0	88.0
IV 1200	55.6	77.1	81.5	82.9	85.5	86.9	87.3	87.6	87.6	88.0	88.4	88.4	88.4	88.4	89.5	89.5
IV 1000	56.0	77.8	83.6	85.5	88.0	90.2	90.6	91.3	91.3	91.6	92.0	92.0	92.0	92.0	93.1	93.1
IV 900	56.0	78.2	84.4	86.2	88.7	90.9	91.3	92.1	92.1	92.4	92.7	92.7	92.7	92.7	93.8	93.8
IV 800	56.0	78.2	84.7	86.9	89.5	91.6	92.4	93.1	93.1	93.5	93.8	93.8	93.8	93.8	94.9	94.9
IV 700	56.1	78.6	85.1	87.3	90.2	92.4	93.1	93.8	93.8	94.2	94.6	94.6	94.6	94.6	95.6	95.6
IV 600	56.1	78.6	85.5	87.6	90.6	92.7	93.5	94.2	94.2	94.6	94.9	94.9	94.9	94.9	96.0	96.0
IV 500	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.3	95.6	95.6	95.6	95.6	96.7	96.7
IV 400	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.6	95.6	95.6	95.6	95.6	96.7	96.7
IV 300	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.6	95.6	95.6	95.6	95.6	96.7	96.7
IV 200	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.6	95.6	95.6	95.6	95.6	96.7	96.7
IV 100	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.6	95.6	95.6	95.6	95.6	96.7	96.7
IV 0	56.1	78.6	85.5	87.6	90.6	92.7	93.8	94.9	94.9	95.6	95.6	95.6	95.6	95.6	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

275

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-02

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	45.2	53.6	56.9	57.9	59.6	59.9	60.3	60.3	60.3	60.3	60.6	60.6	60.6	60.6	60.6
≥ 20000	46.6	56.9	60.3	62.0	63.7	64.4	64.4	64.4	64.4	64.4	64.7	64.7	64.7	64.7	64.7
IV 18000	46.6	56.9	60.3	62.0	63.7	64.4	64.7	64.7	64.7	64.7	65.1	65.1	65.1	65.1	65.1
IV 16000	46.6	56.9	60.3	62.0	63.7	64.4	64.7	64.7	64.7	64.7	65.1	65.1	65.1	65.1	65.1
IV 14000	47.3	56.6	62.0	63.7	65.4	66.1	66.4	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8
IV 12000	48.0	57.3	63.4	65.1	66.8	67.5	67.8	67.8	67.8	67.8	68.2	68.2	68.2	68.2	68.2
IV 10000	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5
IV 9000	48.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5
IV 8000	49.0	60.3	64.4	66.1	67.8	68.5	68.8	68.8	68.8	68.8	69.2	69.2	69.2	69.2	69.2
IV 7000	49.0	60.3	64.4	66.1	67.8	68.5	68.8	68.8	68.8	68.8	69.2	69.2	69.2	69.2	69.2
IV 6000	49.3	61.6	64.7	66.4	68.2	68.8	69.2	69.2	69.2	69.2	69.5	69.5	69.5	69.5	69.5
IV 5000	50.0	62.0	66.1	67.8	69.5	70.2	70.6	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9
IV 4500	51.4	63.0	67.1	68.8	70.6	71.2	71.6	71.6	71.6	71.6	71.9	71.9	71.9	71.9	71.9
IV 4000	54.5	66.1	70.2	72.3	74.0	74.7	75.0	75.0	75.0	75.0	75.3	75.3	75.3	75.3	75.3
IV 3500	56.5	68.2	72.3	74.3	76.0	76.7	77.1	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4
IV 3000	59.6	71.6	75.7	77.7	79.5	80.1	80.5	80.5	80.5	80.5	80.8	80.8	80.8	80.8	80.8
IV 2500	61.3	75.7	79.8	81.9	83.6	84.3	84.6	84.6	84.6	84.6	84.9	84.9	84.9	84.9	84.9
IV 2000	64.7	79.8	84.6	86.6	88.4	89.1	89.4	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7
IV 1800	65.1	80.1	84.9	87.3	89.1	89.7	90.1	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4
IV 1500	66.8	81.9	87.3	89.7	91.9	92.5	93.2	93.2	93.2	93.2	93.5	93.5	93.5	93.5	93.5
IV 1200	67.1	82.2	88.0	90.8	92.8	93.5	94.2	94.5	94.5	94.5	94.9	94.9	94.9	94.9	94.9
IV 1000	67.5	82.9	89.1	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9
IV 900	67.5	82.9	89.1	92.5	95.2	95.9	96.6	96.9	96.9	96.9	97.3	97.3	97.3	97.3	97.3
IV 800	67.5	82.9	89.4	92.8	95.6	96.2	96.9	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6
IV 700	67.5	82.9	89.4	92.8	95.6	96.2	96.9	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6
IV 600	67.5	82.9	89.4	92.8	95.6	96.2	96.9	97.3	97.3	97.3	97.6	97.6	97.6	97.6	97.6
IV 500	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6
IV 400	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6
IV 300	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6
IV 200	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6
IV 100	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6
IV 0	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 92

DIRNAVOCEANMET SMOS

10
4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-80

YEARS

MAY

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	52.7	62.3	64.6	64.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 20000	55.6	67.1	69.2	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 18000	56.9	67.1	69.2	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 16000	55.6	67.1	69.2	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 14000	57.9	68.8	70.6	71.0	72.3	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 12000	58.2	69.5	71.0	72.6	73.3	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 10000	59.6	71.2	74.0	74.7	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 9000	59.6	71.2	74.0	74.7	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 8000	60.3	72.3	75.0	75.7	76.4	76.4	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 7000	62.3	72.6	75.3	76.0	76.7	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 6000	61.6	73.3	75.7	76.4	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 5000	61.6	74.0	76.7	77.4	78.1	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 4500	61.6	74.3	77.1	77.7	78.4	78.4	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 4000	62.3	75.3	78.1	78.8	79.5	79.5	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 3500	64.4	77.4	80.1	80.8	81.5	81.5	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 3000	65.8	81.9	84.6	85.3	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 2500	71.6	85.3	88.1	89.7	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 2000	73.3	87.1	89.7	91.4	91.4	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1800	73.3	87.1	89.7	91.4	91.4	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1500	74.3	89.0	91.8	92.3	93.5	93.5	93.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
IV 1200	75.7	93.4	93.2	93.8	94.4	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 1000	75.7	93.8	93.8	94.5	95.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 900	75.7	93.8	93.8	94.5	95.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 800	75.7	93.8	93.8	94.5	95.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 700	75.7	94.1	94.2	95.2	96.6	97.6	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 600	75.7	94.1	94.5	95.6	96.9	98.0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	75.7	94.1	94.5	95.6	96.9	98.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

57

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-74

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 20000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 18000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 16000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 14000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 12000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 10000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 9000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 8000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 7000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 6000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 5000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 4000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 3500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 3000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 2500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 2000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 1800	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 1500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 1200	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 1000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 900	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 800	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 700	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 600	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 400	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 300	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 200	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 100	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 0	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6

TOTAL NUMBER OF OBSERVATIONS

13

DIRNAVOCEANMET

SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC. 01 83

34

Page 412

Pal



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13-15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARMAR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.7	60.9	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 20000	50.4	63.7	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 18000	50.4	63.7	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 14000	50.4	64.1	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
IV 14000	50.8	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 12000	51.6	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 10000	51.6	67.7	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 9000	51.6	67.7	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 8000	52.8	69.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 7000	53.2	71.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 6000	54.4	71.8	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 5000	54.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 4500	55.2	73.4	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 4000	57.7	76.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 3500	58.1	77.0	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3000	59.3	79.8	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.7
IV 2500	62.1	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 2000	65.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1800	65.3	88.7	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1500	69.2	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 1200	69.8	93.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 1000	69.8	95.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 900	69.8	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 800	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 500	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 400	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 300	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6	99.6	99.6	99.6
IV 200	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0
IV 100	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0
IV 0	69.8	96.4	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.6	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

73-15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-74, 78-82
YEARSMAR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾/10	¾
NO CEILING	38.9	55.0	55.0	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	56.5
≥ 20000	38.9	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	58.0
IV 18000	38.9	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	58.0
IV 14000	38.9	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	58.0
IV 14000	38.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.8
IV 12000	38.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.8
IV 10000	38.9	58.8	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	60.3
IV 9000	38.9	58.8	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	60.3
IV 8000	39.7	60.3	60.3	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.8
IV 7000	39.7	62.6	62.6	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	64.1
IV 6000	40.5	63.4	63.4	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.9
IV 5000	40.5	64.1	64.1	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.7
IV 4500	42.0	65.7	65.7	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	67.2
IV 4000	42.0	65.7	66.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.9
IV 3500	42.8	67.2	67.9	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.5
IV 3000	45.0	71.0	71.8	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	73.3
IV 2500	48.9	76.3	77.1	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.6
IV 2000	51.2	80.9	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	83.2
IV 1800	51.2	80.9	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	83.2
IV 1500	55.0	87.0	87.8	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	90.1
IV 1200	55.7	92.4	93.1	93.9	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	95.4
IV 1000	55.7	93.9	94.7	95.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.7
IV 900	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IV 800	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IV 700	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IV 600	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IV 500	55.7	94.7	95.4	96.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	99.2
IV 400	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0
IV 300	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0
IV 200	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0
IV 100	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0
IV 0	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 131

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	46.1	56.9	58.5	59.1	59.8	60.0	60.1	60.1	60.1	60.2	60.3	60.3	60.3	60.3	60.5	60.6
N 20000	49.2	64.8	62.7	63.5	64.1	64.3	64.4	64.4	64.4	64.5	64.6	64.6	64.6	64.6	64.8	64.9
N 18000	49.2	60.8	62.7	63.5	64.1	64.4	64.5	64.6	64.6	64.6	64.8	64.8	64.8	64.8	65.0	65.0
N 16000	49.2	60.9	62.8	63.5	64.2	64.4	64.6	64.6	64.6	64.7	64.8	64.8	64.8	64.8	65.0	65.1
N 14000	49.7	62.1	64.0	64.8	65.3	65.8	65.9	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.3	66.4
N 12000	50.2	63.1	65.3	66.1	66.8	67.1	67.2	67.3	67.3	67.3	67.5	67.5	67.5	67.5	67.7	67.7
N 10000	50.9	64.2	66.4	67.2	67.9	68.2	68.3	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.8	68.8
N 9000	51.0	64.2	66.5	67.3	68.0	68.2	68.4	68.4	68.4	68.5	68.6	68.6	68.6	68.6	68.8	68.9
N 8000	52.1	65.8	68.0	68.8	69.5	69.8	69.9	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.4	70.4
N 7000	52.3	66.3	68.6	69.4	70.1	70.4	70.5	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.9	71.0
N 6000	52.7	66.8	69.0	69.8	70.6	70.9	71.0	71.1	71.1	71.1	71.3	71.3	71.3	71.3	71.5	71.5
N 5000	53.5	67.8	70.0	70.8	71.6	71.9	72.0	72.1	72.1	72.1	72.3	72.3	72.3	72.3	72.5	72.5
N 4500	54.0	68.4	70.7	71.5	72.3	72.5	72.7	72.7	72.7	72.8	72.9	72.9	72.9	72.9	73.1	73.2
N 4000	56.1	73.7	73.0	73.8	74.6	74.9	75.0	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.5	75.5
N 3500	57.3	72.2	74.5	75.4	76.1	76.4	76.5	76.6	76.6	76.7	76.8	76.8	76.8	76.8	77.0	77.1
N 3000	59.8	75.6	78.0	78.8	79.6	79.9	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.5	80.6
N 2500	62.5	79.5	82.0	82.9	83.7	84.0	84.1	84.2	84.2	84.3	84.4	84.4	84.4	84.4	84.6	84.7
N 2000	65.4	83.2	85.8	86.7	87.5	87.8	88.0	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.5	88.6
N 1800	65.7	83.8	86.2	87.2	88.3	88.3	88.4	88.6	88.6	88.6	88.8	88.8	88.8	88.8	89.0	89.0
N 1500	67.7	86.1	88.9	89.9	91.0	91.4	91.6	91.7	91.7	91.8	91.9	91.9	91.9	91.9	92.1	92.2
N 1200	68.4	87.4	90.3	91.5	92.6	93.1	93.4	93.6	93.6	93.6	93.8	93.8	93.8	93.8	94.0	94.0
N 1000	68.6	88.4	91.9	93.2	94.5	95.3	95.5	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.3	96.3
N 900	68.6	88.6	92.1	93.4	94.9	95.6	95.9	96.1	96.1	96.3	96.4	96.4	96.4	96.4	96.6	96.7
N 800	68.6	88.8	92.5	94.0	95.5	96.3	96.7	96.9	96.9	97.0	97.2	97.2	97.2	97.2	97.4	97.4
N 700	68.6	89.0	92.6	94.2	95.9	96.7	97.0	97.3	97.3	97.5	97.6	97.6	97.6	97.6	97.8	97.9
N 600	68.7	89.0	92.8	94.4	96.1	96.8	97.2	97.5	97.5	97.7	97.8	97.8	97.8	97.8	98.0	98.1
N 500	68.8	89.1	93.0	94.6	96.5	97.2	97.7	98.0	98.0	98.2	98.4	98.4	98.4	98.4	98.6	98.6
N 400	68.8	89.2	93.3	94.6	96.5	97.4	97.8	98.2	98.2	98.5	98.7	98.7	98.7	98.7	99.0	99.0
N 300	68.8	89.2	93.0	94.6	96.5	97.4	97.8	98.4	98.4	98.8	99.0	99.0	99.0	99.2	99.5	99.6
N 200	68.8	89.2	93.0	94.6	96.5	97.4	97.8	98.4	98.5	98.8	99.1	99.1	99.1	99.3	99.6	99.7
N 100	68.8	89.2	93.0	94.6	96.5	97.4	97.8	98.4	98.5	98.8	99.1	99.1	99.1	99.3	99.7	99.9
N 0	68.8	89.2	93.0	94.6	96.5	97.4	97.8	98.4	98.5	98.8	99.1	99.1	99.1	99.3	99.7	99.9

TOTAL NUMBER OF OBSERVATIONS 1521

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

APR
1964

02

TOTAL NUMBER OF OBSERVATIONS 3

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
15

STATION NAME
IMPERIAL BEACH, CALIFORNIA

74

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
WV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
3115STATION NAME
IMPERIAL BEACH, CALIFORNIAYEARS
73-82MONTH
APRPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)HOURS (L.S.T.)
07

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	25.9	39.6	44.1	45.6	45.9	46.7	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 20000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 18000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 14000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 14000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 12000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 10000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 9000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 8000	26.7	42.6	47.0	48.8	48.9	49.6	50.0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 7000	27.0	43.0	47.4	48.9	49.3	50.0	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 6000	27.0	43.0	47.4	48.9	49.3	50.0	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 5000	27.4	43.7	48.2	49.6	50.0	50.7	51.1	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 4500	28.2	44.8	49.3	50.7	51.1	51.9	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 4000	28.5	45.6	50.0	51.5	51.9	52.6	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 3500	29.3	46.3	50.7	52.2	52.6	53.3	53.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 3000	30.7	48.9	53.3	54.8	55.2	55.9	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 2500	37.0	56.3	61.1	63.0	63.3	64.1	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 2000	41.9	63.7	68.9	70.7	71.5	72.2	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 1800	42.6	64.8	70.0	71.9	72.6	73.3	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
≥ 1500	45.6	70.0	76.3	78.2	78.9	79.6	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1200	46.3	72.6	78.9	81.1	83.3	84.1	84.8	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 1000	46.7	74.8	81.9	84.1	86.3	87.8	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 900	46.7	74.8	81.9	84.1	86.3	87.8	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 800	47.0	75.9	83.3	85.9	89.3	90.7	91.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 700	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 600	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 500	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 400	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 300	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 200	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 100	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 0	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4

TOTAL NUMBER OF OBSERVATIONS 270

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.4	56.0	60.9	61.9	64.1	64.1	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 20000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 18000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 16000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 14000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 12000	44.5	59.4	62.3	63.4	65.5	65.5	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 10000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 9000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 8000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 7000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 6000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 5000	47.3	62.6	65.5	66.6	68.7	68.7	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 4500	47.7	63.0	65.8	66.9	69.0	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 4000	48.8	64.1	66.9	68.0	70.1	70.1	70.5	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 3500	50.5	66.2	69.0	70.1	72.2	72.2	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 3000	50.9	66.6	69.4	70.5	72.6	72.6	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 2500	56.6	74.7	77.6	78.7	80.8	80.8	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 2000	59.8	78.3	81.1	82.2	84.3	84.3	84.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800	57.8	80.1	82.9	84.0	86.1	86.1	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 1600	61.6	83.6	87.5	89.3	91.5	91.5	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1400	61.9	84.7	89.7	90.8	94.0	94.0	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 600	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 0	62.3	85.1	89.3	91.1	94.3	94.3	95.0	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7115
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSAPR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.5	64.0	72.2	75.1	76.2	76.2	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 20000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 18000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 16000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 14000	58.3	73.7	77.2	80.1	81.1	81.1	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 12000	58.7	74.9	77.9	80.8	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 10000	59.1	74.7	78.3	81.1	82.2	82.2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 9000	59.1	74.7	78.3	81.1	82.2	82.2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IV 8000	60.9	76.5	80.1	82.9	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 7000	61.6	77.2	80.8	83.6	84.7	84.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 6000	61.9	77.6	81.1	84.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 5000	61.9	77.6	81.1	84.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 4500	62.3	77.9	81.5	84.3	85.4	85.4	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 4000	63.4	79.0	82.6	85.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 3500	64.4	80.1	83.6	86.5	87.5	87.5	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 3000	65.5	81.5	85.1	87.9	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 2500	69.0	85.1	88.6	91.5	92.5	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 2000	70.1	87.2	90.8	93.6	94.7	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1800	70.5	87.5	91.1	94.0	95.0	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1500	71.5	89.3	93.2	96.1	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 1200	71.5	90.0	94.0	96.8	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1000	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 800	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	71.5	90.0	94.3	97.2	98.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	71.5	90.0	94.3	97.2	98.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

63-95
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSAPR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	59.1	69.9	71.8	72.5	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 20000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 18000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 16000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 14000	62.5	74.0	75.8	76.6	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 12000	62.5	74.0	76.2	77.0	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 10000	63.6	75.1	77.0	77.7	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 9000	63.6	75.1	77.0	77.7	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 8000	64.3	75.8	77.7	78.4	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 7000	65.1	76.6	78.4	79.2	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 6000	65.1	76.6	78.4	79.2	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 5000	65.8	77.3	79.2	79.9	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 4500	65.8	77.3	79.2	79.9	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 4000	66.5	78.1	79.9	80.7	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 3500	67.7	79.6	81.4	82.2	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3000	68.7	79.9	81.8	82.5	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 2500	72.1	84.4	86.3	87.0	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 2000	74.4	87.0	88.9	89.6	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1800	74.4	87.0	88.9	89.6	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1600	76.2	90.3	92.2	92.9	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 1400	76.6	91.1	92.9	93.7	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 1200	76.6	93.3	95.2	95.9	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 1000	77.0	93.7	95.5	96.3	97.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 900	77.0	94.4	96.3	97.0	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 800	77.0	94.4	96.3	97.0	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 700	77.0	94.4	96.3	97.0	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 600	77.0	94.4	96.3	97.0	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 500	77.0	94.4	96.3	97.0	97.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 400	77.3	94.8	97.0	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 300	77.3	94.8	97.0	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 200	77.3	94.8	97.0	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 100	77.3	94.8	97.0	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	77.3	94.8	97.0	97.8	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 269

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

APR

MONTH

19

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	45.9	61.4	63.8	64.2	65.1	65.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.9	65.9	65.9
≥ 20000	46.8	63.2	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 18000	46.8	63.0	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 16000	46.8	63.0	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 14000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 12000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 10000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 9000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 8000	48.4	65.0	67.5	67.9	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.5	69.5	69.5
IV 7000	48.4	65.0	67.5	67.9	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.5	69.5	69.5
IV 6000	48.8	65.9	68.3	68.7	69.5	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.3	70.3	70.3
IV 5000	49.2	66.3	68.7	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.7	70.7	70.7
IV 4500	49.2	66.3	68.7	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.7	70.7	70.7
IV 4000	50.4	67.5	69.9	70.3	71.1	71.1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	72.0	72.0	72.0
IV 3500	52.4	69.9	72.4	72.8	73.6	73.6	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.4	74.4	74.4
IV 3000	54.4	72.4	74.8	75.2	76.0	76.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.8	76.8	76.8
IV 2500	58.1	76.0	78.5	78.9	79.7	79.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.5	80.5	80.5
IV 2000	62.2	80.9	83.3	83.7	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.4	85.4	85.4
IV 1800	63.0	82.1	84.6	85.0	85.8	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.6	86.6	86.6
IV 1500	65.0	87.4	89.8	90.2	91.1	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.9	91.9	91.9
IV 1200	65.9	89.4	91.9	92.3	93.1	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.9	93.9	93.9
IV 1000	67.5	92.3	94.7	95.3	96.3	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.2	97.2	97.2
IV 900	67.5	93.1	95.9	96.3	97.6	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8
IV 800	67.5	93.1	95.9	96.3	97.6	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8
IV 700	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 600	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 500	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 400	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 300	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 200	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 100	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 0	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

206

DIRNAVOCEANMET SMS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-74, 78-82

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	32.9	56.4	58.6	58.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 16000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 12000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 10000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 9000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 8000	35.0	58.6	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 7000	35.0	58.6	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 6000	35.0	58.6	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 5000	35.0	58.6	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 4500	35.0	58.6	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 4000	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 3500	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 3000	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 2500	42.1	68.6	70.7	70.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 2000	45.0	73.6	75.7	75.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1800	45.0	73.6	75.7	75.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1500	47.1	81.4	84.3	84.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 1200	49.3	88.6	92.1	92.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000	49.3	90.0	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 900	49.3	90.0	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	49.3	91.4	97.1	97.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	49.3	91.4	97.1	97.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 600	49.3	91.4	97.1	97.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

140

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.6	51.4	62.3	63.5	64.6	64.8	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000	46.6	61.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6
≥ 18000	46.6	61.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6
≥ 16000	46.6	61.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6
≥ 14000	46.5	62.1	65.1	66.3	67.3	67.5	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1
≥ 12000	46.6	62.4	65.3	66.5	67.6	67.8	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 10000	47.2	62.8	65.7	66.9	68.0	68.2	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8
≥ 9000	47.2	62.8	65.7	66.9	68.0	68.2	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8
≥ 8000	47.9	63.8	66.7	67.9	69.0	69.2	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8
≥ 7000	48.3	64.3	67.2	68.4	69.5	69.7	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 6000	48.4	64.4	67.3	68.5	69.6	69.8	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4
≥ 5000	49.0	65.1	68.0	69.2	70.3	70.5	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4500	49.2	65.4	68.3	69.6	70.6	70.8	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4
≥ 4000	50.2	66.4	69.4	70.6	71.6	71.8	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4
≥ 3500	51.6	68.0	71.0	72.2	73.2	73.4	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0
≥ 3000	52.7	69.5	72.4	73.6	74.7	74.9	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5
≥ 2500	57.1	74.8	77.8	79.1	80.2	80.4	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
≥ 2000	60.1	78.9	82.9	83.3	84.4	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2
≥ 1800	61.4	79.8	82.9	84.2	85.3	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1
≥ 1500	62.4	80.9	87.5	88.9	90.1	90.3	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0
≥ 1200	63.0	85.9	89.6	91.1	92.7	93.0	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000	63.4	87.3	91.5	93.0	94.6	95.2	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0
≥ 900	63.5	87.5	91.8	93.3	94.9	95.4	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3
≥ 800	63.5	88.1	92.4	94.0	95.9	96.5	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5	97.5
≥ 700	63.5	88.1	92.4	94.2	96.1	96.7	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7	97.7
≥ 600	63.5	88.0	92.4	94.2	96.2	96.9	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.0	98.0
≥ 500	63.5	88.1	92.6	94.3	96.4	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.7	98.7
≥ 400	63.6	88.1	92.7	94.5	96.6	97.5	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.1
≥ 300	63.6	88.1	92.7	94.5	96.6	97.5	98.6	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.4	99.4
≥ 200	63.6	88.1	92.7	94.5	96.6	97.5	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.5	99.5
≥ 100	63.6	88.1	92.7	94.5	96.7	97.5	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.5	99.5
≥ 0	63.6	88.1	92.7	94.5	96.7	97.5	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1491

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

74

YEARS

MAY

MORNING

01

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
1000		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7-55
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME13-74
YEAR

YEAR

MAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)74
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1800				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1500				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1200				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1000				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 900				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 800	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
3115STATION NAME
IMPERIAL BEACH, CALIFORNIAYEARS
73-82MONTH
MAYPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)HOURS (LST)
57

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.2	17.8	21.2	22.7	23.9	23.4	23.4	23.7	23.7	24.5	24.5	24.5	24.5	24.5	24.5	24.5
≥ 20000	13.0	20.5	21.9	23.4	23.7	24.1	24.1	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
IN 16000	13.0	20.5	21.9	23.4	23.7	24.1	24.1	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
IN 14000	13.0	20.5	21.9	23.4	23.7	24.1	24.1	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
IN 14000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 12000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 10000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 9000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 8000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 7000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 6000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 5000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 4500	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IN 4000	13.7	21.2	22.7	24.1	24.5	24.8	24.8	25.2	25.2	25.9	25.9	25.9	25.9	25.9	25.9	25.9
IN 3500	15.1	22.7	24.1	25.5	25.9	26.3	26.3	26.6	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3
IN 3000	14.7	26.3	27.7	29.1	29.5	29.9	29.9	30.2	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IN 2500	24.8	33.1	34.5	36.0	36.3	36.7	36.7	37.1	37.1	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IN 2000	29.9	42.1	43.9	45.3	45.7	46.0	46.0	46.4	46.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IN 1800	31.3	44.2	46.0	47.5	47.8	48.2	48.2	48.6	48.6	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IN 1500	32.9	56.8	61.2	63.0	63.3	63.7	63.7	64.3	64.3	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IN 1200	41.0	60.1	67.3	70.1	70.5	70.9	70.9	71.2	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IN 1000	42.8	65.1	74.5	79.1	80.2	80.9	81.7	82.0	82.4	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IN 900	42.8	65.1	74.5	79.1	80.9	81.7	82.4	82.7	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IN 800	42.8	65.8	76.6	81.3	84.5	85.3	86.1	86.9	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IN 700	42.8	65.8	76.6	81.3	84.5	87.4	89.9	91.0	91.4	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IN 600	42.8	65.8	76.6	81.3	84.9	88.5	91.4	92.5	92.8	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IN 500	42.8	65.8	76.6	81.3	85.6	89.2	92.8	94.2	94.6	95.3	95.7	95.7	95.7	95.7	95.7	95.7
IN 400	42.8	65.8	76.6	81.3	85.6	89.2	92.8	94.6	95.0	96.0	96.4	96.4	96.4	96.4	96.4	96.4
IN 300	42.8	65.8	76.6	81.3	86.0	89.6	93.5	95.7	96.0	97.1	97.5	97.5	97.5	97.5	97.5	97.5
IN 200	42.8	65.8	76.6	81.3	86.0	89.6	93.5	96.0	96.4	97.8	98.9	98.9	98.9	98.9	98.9	98.9
IN 100	42.8	65.8	76.6	81.3	86.0	89.6	93.5	96.4	96.4	97.8	98.9	98.9	98.9	99.6	100.0	100.0
IN 0	42.8	65.8	76.6	81.3	86.0	89.6	93.5	96.4	96.4	97.8	98.9	98.9	98.9	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	28.1	41.0	45.3	46.4	47.1	47.1	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 20000	28.8	42.1	46.1	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 18000	28.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 16000	29.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 14000	28.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IV 12000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 10000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 9000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 8000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 7000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 6000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 5000	29.9	43.2	47.1	48.2	48.9	48.9	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4500	30.6	43.9	47.8	48.9	49.6	49.6	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 4000	31.3	44.6	48.6	49.6	50.4	50.4	51.1	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 3500	34.9	46.2	52.2	53.2	54.0	54.0	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 3000	37.1	51.4	55.4	56.5	57.2	57.2	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IV 2500	41.4	57.2	61.2	62.2	63.0	63.0	63.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
IV 2000	44.2	62.2	66.2	67.3	68.0	68.0	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 1800	44.6	63.0	67.3	68.4	69.1	69.1	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 1500	50.7	71.2	76.3	77.7	78.4	78.4	79.1	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV 1200	52.5	73.7	79.9	81.7	83.1	83.5	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 1000	52.5	75.9	84.2	86.7	88.9	89.6	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 900	52.9	75.9	84.2	86.7	89.6	90.3	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
IV 800	53.2	76.6	84.9	87.4	91.0	92.1	92.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 700	53.2	76.6	84.9	88.1	92.5	93.9	94.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 600	53.2	76.6	85.3	88.5	92.8	94.2	95.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 500	53.2	76.6	85.6	88.9	93.5	95.0	96.0	97.1	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 400	53.2	76.6	85.6	88.9	93.9	95.3	96.4	97.5	97.5	98.2	98.2	98.2	98.2	98.6	98.6	98.6
IV 300	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.6	99.6	99.6	100.0	100.0	100.0
IV 200	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.6	99.6	99.6	100.0	100.0	100.0
IV 100	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.6	99.6	99.6	100.0	100.0	100.0
IV 0	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.6	99.6	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSMAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	45.7	59.7	62.6	64.4	65.8	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 20000	47.1	61.2	64.0	65.8	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 18000	47.1	61.2	64.0	65.8	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 16000	47.1	61.2	64.0	65.8	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
≥ 14000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 12000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 10000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 9000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 8000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 7000	47.8	61.9	64.8	66.6	68.0	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 6000	47.8	62.2	65.1	66.9	68.4	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 5000	48.2	62.6	65.5	67.3	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 4500	48.2	62.6	65.5	67.3	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 4000	48.9	63.3	66.2	68.1	69.4	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 3500	50.4	65.1	68.0	69.8	71.2	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3000	51.8	67.3	70.1	71.9	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 2500	55.6	71.9	74.8	76.6	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
≥ 2000	58.6	75.9	78.8	80.6	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 1800	58.6	75.9	78.8	80.6	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 1500	60.6	79.5	83.1	85.3	86.7	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	63.3	84.2	88.1	90.7	92.5	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
≥ 1000	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 800	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 600	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 400	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 300	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 200	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 100	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 0	63.3	85.5	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	42.6	54.6	56.6	57.4	58.3	59.1	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 20000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 18000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 16000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IV 14000	44.2	56.2	58.3	59.1	59.9	60.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 12000	44.2	56.2	58.3	59.1	59.9	60.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 10000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 9000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 8000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 7000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 6000	45.0	57.0	59.1	59.9	60.7	61.6	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 5000	45.0	57.0	59.5	60.3	61.2	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4500	45.0	57.0	59.5	60.3	61.2	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4000	45.0	57.0	59.5	60.3	61.2	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 3500	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 3000	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 2500	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 2000	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 1800	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 1500	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 1200	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 1000	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 900	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 800	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 700	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 600	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 500	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 400	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 300	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 200	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 100	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 0	45.4	57.4	59.5	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2

TOTAL NUMBER OF OBSERVATIONS

242

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
ST 15STATION NAME
IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	29.4	35.8	41.1	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 20000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
N 18000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
N 16000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
N 14000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
N 12000	32.0	42.4	43.7	45.0	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
N 10000	32.5	42.9	44.2	45.5	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
N 9000	32.5	42.9	44.2	45.5	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
N 8000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
N 7000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
N 6000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
N 5000	34.2	44.6	45.9	47.2	47.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
N 4500	34.2	45.0	46.3	47.6	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
N 4000	34.2	45.0	46.3	47.6	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
N 3500	34.6	45.9	47.2	48.5	48.9	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
N 3000	35.0	47.2	48.5	49.0	50.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
N 2500	38.5	51.1	52.4	53.7	54.1	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
N 2000	44.6	58.4	59.7	61.0	61.5	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
N 1800	45.0	59.7	61.0	62.3	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
N 1600	50.1	72.3	73.6	75.0	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
N 1200	58.4	81.5	82.3	84.0	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
N 1000	60.2	85.3	88.7	90.3	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
N 900	60.6	86.2	89.6	91.8	92.6	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
N 800	60.6	86.6	90.0	92.2	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
N 700	61.5	87.9	91.8	93.9	94.8	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
N 600	61.5	88.3	92.6	94.8	97.0	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
N 500	61.5	88.3	92.6	94.8	97.0	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
N 400	61.5	88.3	92.6	94.8	97.0	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
N 300	61.5	88.3	92.6	94.8	97.4	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
N 200	61.5	88.3	92.6	94.8	97.4	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
N 100	61.5	88.3	92.6	94.8	97.4	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
N 0	61.5	88.3	92.6	94.8	97.4	99.1	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

231

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-74, 78-82

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	27.7	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 20000	23.7	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 10000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 14000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 14000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 12000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 10000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 9000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 8000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 7000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 6000	23.7	34.8	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 5000	24.4	36.3	37.0	37.0	38.5	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 4000	24.4	36.3	37.0	37.0	38.5	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 4000	25.2	37.0	38.5	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 3000	25.2	37.0	38.5	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 3000	25.9	40.7	42.2	43.0	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 2500	31.9	43.7	45.2	45.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 2000	33.3	51.9	53.3	54.1	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 1800	33.3	52.6	54.8	55.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 1500	40.7	68.2	70.4	71.1	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
≥ 1200	44.4	74.3	82.2	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1000	45.9	83.7	88.2	89.6	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 900	45.9	85.9	91.1	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 800	45.9	87.4	92.6	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 700	45.9	87.4	92.6	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 600	46.7	88.2	93.3	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 500	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

135

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7:15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSMAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	30.5	41.9	44.2	45.4	46.2	46.4	46.7	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 20000	31.5	43.1	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 18000	31.5	43.0	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 16000	31.5	43.0	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 14000	31.7	43.2	45.4	46.7	47.4	47.7	48.0	48.1	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 12000	32.1	43.5	45.8	47.0	47.8	48.1	48.3	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 10000	32.2	43.6	45.9	47.2	47.9	48.2	48.5	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 9000	32.2	43.6	45.9	47.2	47.9	48.2	48.5	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 8000	32.3	43.7	46.0	47.2	48.0	48.3	48.6	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 7000	32.4	43.9	46.1	47.4	48.1	48.4	48.7	48.8	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 6000	32.4	44.0	46.3	47.5	48.3	48.6	48.8	49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 5000	32.9	44.5	46.8	48.0	48.8	49.0	49.3	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 4800	33.1	44.7	47.0	48.2	49.0	49.2	49.5	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 4600	33.6	45.2	47.5	48.8	49.5	49.8	50.1	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 3500	35.3	47.0	49.3	51.6	51.3	51.6	51.9	52.0	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 3000	37.7	49.8	52.1	53.3	54.1	54.4	54.6	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
≥ 2500	42.1	55.1	57.4	58.6	59.4	59.7	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 2000	45.6	61.1	63.5	64.8	65.6	65.8	66.1	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 1800	46.3	62.4	64.9	66.2	66.9	67.2	67.5	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 1500	52.2	71.4	74.8	76.4	77.3	77.5	77.7	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 1200	54.4	76.2	80.7	82.6	83.7	84.0	84.3	84.4	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1000	55.3	77.5	85.7	88.2	89.7	90.2	90.6	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	55.4	77.9	86.2	88.9	90.8	91.3	91.7	91.9	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 800	55.5	78.7	87.2	90.0	92.5	93.3	93.9	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 700	55.7	81.1	87.6	90.5	93.2	94.3	95.1	95.3	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 600	55.7	81.1	87.8	90.9	94.0	95.3	96.3	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 500	55.7	81.1	87.9	91.1	94.5	96.0	97.2	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	55.7	81.1	87.9	91.2	94.7	96.3	97.6	98.2	98.3	98.6	98.7	98.7	98.8	98.8	98.8	98.8
≥ 300	55.7	81.1	87.9	91.2	95.0	96.6	98.1	98.9	99.0	99.3	99.5	99.5	99.6	99.6	99.6	99.6
≥ 200	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.8	99.7	99.7	99.9	99.9	99.9	99.9
≥ 100	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.9	99.7	99.7	99.9	100.0	100.0	100.0
≥ 0	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.9	99.7	99.7	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1486

DIRNAVOCEANMET SMO8

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4800																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
1315

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS

MONTH
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)
14

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

27

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.9	9.5	14.8	19.1	20.1	21.9	23.0	23.0	23.0	23.3	23.3	23.3	23.3	23.3	23.3	23.3
≥ 20000	3.9	9.5	14.8	19.1	20.1	21.9	23.0	23.0	23.0	23.3	23.3	23.3	23.3	23.3	23.3	23.3
IV 18000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 16000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 14000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 12000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 10000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 9000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 8000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 7000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 6000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 5000	4.2	10.3	15.9	20.1	21.2	23.0	24.0	24.0	24.0	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4500	4.2	10.3	15.9	20.1	21.2	23.0	24.0	24.0	24.0	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4000	5.0	11.0	16.6	20.9	21.9	23.7	24.7	24.7	24.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1
IV 3500	5.3	11.7	17.3	21.6	22.6	24.4	25.4	25.4	25.4	25.8	25.8	25.8	25.8	25.8	25.8	25.8
IV 3000	6.7	13.1	18.7	23.0	24.0	25.8	26.9	26.9	26.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2
IV 2500	17.6	18.4	24.0	28.3	29.3	31.1	32.2	32.2	32.2	32.6	32.6	32.6	32.6	32.6	32.6	32.6
IV 2000	13.8	22.6	28.3	32.9	33.9	35.7	36.8	36.8	36.8	37.1	37.1	37.1	37.1	37.1	37.1	37.1
IV 1800	13.8	23.3	29.0	33.6	34.6	36.4	37.5	37.5	37.5	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IV 1500	17.7	32.9	39.2	44.2	45.9	48.1	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 1200	18.4	37.5	45.2	51.2	53.7	56.2	57.2	57.2	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 1000	18.7	40.1	51.2	60.8	64.3	67.8	69.6	69.6	69.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 900	18.7	41.3	52.3	63.3	67.1	70.7	72.4	72.4	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 800	18.7	41.7	53.7	65.4	72.1	76.7	79.5	79.9	79.9	80.6	80.9	80.9	80.9	80.9	80.9	80.9
IV 700	18.7	42.1	54.1	66.8	74.2	79.2	83.0	84.1	84.1	84.8	85.2	85.2	85.2	85.2	85.2	85.2
IV 600	18.7	42.1	54.8	67.8	75.6	80.9	85.5	87.3	87.3	88.0	88.3	88.3	88.3	88.3	88.3	88.3
IV 500	18.7	42.1	54.8	68.9	77.4	83.4	89.1	91.2	91.2	91.9	92.2	92.2	92.6	92.6	92.6	92.6
IV 400	18.7	42.1	54.8	68.9	77.7	83.8	90.1	92.6	92.6	93.6	94.0	94.0	94.7	94.7	94.7	94.7
IV 300	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.1	96.1	96.1	97.2	97.2	97.5	97.5
IV 200	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	96.8	96.8	98.6	98.6	98.9	98.9
IV 100	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	97.2	97.2	99.3	99.3	99.7	99.7
IV 0	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	97.2	97.2	99.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS

283

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	19.4	41.3	49.8	55.5	58.3	59.0	59.4	60.1	60.1	60.8	60.8	60.8	61.1	61.1	61.1
IV 20000	19.4	41.3	50.2	55.6	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5
IV 18000	19.4	41.3	50.2	55.6	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5
IV 16000	19.4	41.3	50.2	55.6	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5
IV 14000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 12000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 10000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 9000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 8000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 7000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 6000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8
IV 5000	19.4	42.1	50.9	56.5	59.7	60.1	60.4	61.1	61.1	61.8	61.8	61.8	62.2	62.2	62.2
IV 4500	19.4	42.1	50.9	56.5	59.7	60.1	60.4	61.1	61.1	61.8	61.8	61.8	62.2	62.2	62.2
IV 4000	20.5	42.6	51.6	57.2	59.7	60.8	61.1	61.6	61.8	62.5	62.5	62.5	62.9	62.9	62.9
IV 3500	20.5	42.6	51.6	57.2	59.7	60.8	61.1	61.6	61.8	62.5	62.5	62.5	62.9	62.9	62.9
IV 3000	21.2	43.6	52.7	58.3	60.8	61.8	62.2	62.9	62.9	63.6	63.6	63.6	64.0	64.0	64.0
IV 2500	23.3	46.6	55.5	61.1	63.6	64.7	65.0	65.7	65.7	66.4	66.4	66.4	66.8	66.8	66.8
IV 2000	24.7	49.1	58.7	63.6	66.1	67.1	67.5	68.2	68.2	68.9	68.9	68.9	69.3	69.3	69.3
IV 1800	25.1	49.8	59.0	64.7	67.1	68.2	68.6	69.3	69.3	70.0	70.0	70.0	70.3	70.3	70.3
IV 1500	27.6	55.8	66.8	73.9	76.3	77.4	77.7	78.5	78.5	79.2	79.2	79.2	79.5	79.5	79.5
IV 1200	27.9	58.3	70.3	77.4	80.2	81.3	81.6	82.3	82.3	83.0	83.0	83.0	83.4	83.4	83.4
IV 1000	28.6	59.7	72.8	80.6	84.5	85.9	86.6	87.3	87.3	88.0	88.0	88.0	88.3	88.3	88.3
IV 900	28.6	59.7	73.9	81.6	85.5	86.9	88.3	89.1	89.1	89.8	89.8	89.8	90.1	90.1	90.1
IV 800	28.6	60.1	74.2	83.0	87.3	89.4	91.2	91.9	91.9	92.9	92.9	92.9	93.3	93.3	93.3
IV 700	29.0	60.4	74.9	83.8	88.7	90.1	91.9	92.6	92.6	93.6	93.6	93.6	94.0	94.0	94.0
IV 600	29.0	60.4	74.9	83.8	89.1	91.5	93.3	94.0	94.0	95.1	95.1	95.1	95.4	95.4	95.4
IV 500	29.0	60.4	74.9	83.8	90.8	93.6	95.4	96.5	96.5	97.9	97.9	97.9	98.2	98.2	98.2
IV 400	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.2	97.2	98.6	98.6	98.6	98.9	98.9	98.9
IV 300	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	99.3	99.3	99.3
IV 200	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	99.7	99.7	99.7
IV 100	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	100.0	100.0	100.0
IV 0	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (C & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.3	61.4	66.7	69.9	71.9	72.9	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 20000	34.0	62.4	67.7	70.9	72.0	72.0	72.7	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
18000	34.0	62.8	68.1	71.3	72.3	72.3	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
16000	34.4	63.1	68.4	71.6	72.7	72.7	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
14000	34.4	63.1	68.4	71.6	72.7	72.7	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
12000	34.4	63.5	68.8	72.0	73.1	73.1	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
10000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
9000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
8000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
7000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
6000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
5000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
4500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
4000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
3500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
3000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
1800	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
1500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
1200	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
1000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
900	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
800	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
700	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
600	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
400	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
300	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
200	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
100	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
0	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8

TOTAL NUMBER OF OBSERVATIONS

152

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 20000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 18000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 16000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 14000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 12000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 10000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 9000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 8000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 7000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 6000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 5000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 4500	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 4000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 3500	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 3000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 2500	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 2000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 1800	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 1500	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 1200	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 1000	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 900	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 800	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 700	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 600	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 500	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 400	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 300	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 200	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 100	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
WV 0	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3

TOTAL NUMBER OF OBSERVATIONS 249

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	32.4	55.0	57.1	57.1	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	58.0	58.0	58.0	58.0
≥ 20000	33.2	56.3	58.4	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	59.2	59.2	59.2	59.2
≥ 18000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7	59.7
≥ 16000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7	59.7
≥ 14000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7	59.7
≥ 12000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7	59.7
≥ 10000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 9000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 8000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 7000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 6000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 5000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 4500	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1	60.1
≥ 4000	34.0	57.6	59.7	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.5	60.5	60.5	60.5
≥ 3500	34.5	58.0	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	60.9	60.9	60.9
≥ 3000	34.5	58.0	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	60.9	60.9	60.9
≥ 2500	35.7	59.7	61.8	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.6	62.6	62.6	62.6
≥ 2000	37.4	61.8	63.9	63.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.7	64.7	64.7	64.7
≥ 1800	37.8	62.6	64.7	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.6	65.6	65.6	65.6
≥ 1500	43.8	70.0	73.5	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.4	74.4	74.4	74.4
≥ 1200	45.0	73.5	76.9	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2	78.2
≥ 1000	45.8	80.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2	88.2
≥ 900	46.2	81.9	88.7	89.5	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.8	90.8	90.8	90.8
≥ 800	46.2	84.5	91.6	92.9	93.7	94.1	94.5	94.5	94.5	94.5	94.5	94.5	95.0	95.0	95.0	95.0
≥ 700	46.2	84.5	92.4	93.7	95.0	95.4	95.8	95.8	95.8	95.8	95.8	95.8	96.2	96.2	96.2	96.2
≥ 600	46.2	84.5	92.4	93.7	95.0	95.4	95.8	95.8	95.8	95.8	95.8	95.8	96.2	96.2	96.2	96.2
≥ 500	46.2	84.5	92.4	93.7	95.0	95.4	95.8	96.6	96.6	96.6	96.6	96.6	97.1	97.1	97.1	97.1
≥ 400	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	97.5	97.5	97.5	97.5
≥ 300	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	97.5	97.5	97.5	97.5
≥ 200	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	98.3	98.3
≥ 100	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	99.2	99.2
≥ 0	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

438

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73.77-87

YEARS

JUN

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.8	44.0	47.1	49.3	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	17.8	44.0	47.1	49.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 18000	17.8	44.0	47.1	49.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 16000	17.8	44.0	47.8	50.3	51.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 14000	17.8	45.2	48.4	51.0	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 12000	17.8	45.2	48.4	51.0	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 10000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 9000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 8000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 7000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 6000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 5000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4500	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 3500	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 3000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 2500	20.4	51.0	54.1	56.7	57.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 2000	24.2	55.4	58.6	61.2	61.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 1800	24.2	55.4	58.6	61.2	61.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 1500	28.0	65.4	73.3	75.8	76.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 1200	28.0	73.3	77.1	79.0	80.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 1000	28.7	78.3	84.7	89.2	89.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 900	28.7	79.0	86.0	90.5	91.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 800	28.7	81.5	88.5	94.3	94.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 700	28.7	82.2	89.8	96.2	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 600	28.7	82.2	89.8	96.2	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 500	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 157

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUN
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	23.7	44.9	49.8	52.7	53.9	54.9	54.9	55.1	55.1	55.3	55.3	55.3	55.5	55.5	55.5	55.5
IV 20000	24.7	45.4	50.4	53.4	54.5	55.2	55.6	55.8	55.8	56.0	56.0	56.0	56.1	56.1	56.1	56.1
IV 18000	24.1	45.6	50.6	53.6	54.7	55.4	55.8	56.0	56.0	56.2	56.2	56.2	56.3	56.3	56.3	56.3
IV 16000	24.2	45.8	50.8	53.8	54.9	55.6	56.0	56.2	56.2	56.4	56.4	56.4	56.5	56.5	56.5	56.5
IV 14000	24.2	45.9	50.9	53.9	55.0	55.7	56.1	56.3	56.3	56.5	56.5	56.5	56.6	56.6	56.6	56.7
IV 12000	24.3	46.0	51.0	54.0	55.1	55.8	56.2	56.4	56.4	56.6	56.6	56.6	56.7	56.7	56.7	56.7
IV 10000	24.4	46.3	51.4	54.4	55.5	56.2	56.6	56.8	56.8	57.0	57.0	57.0	57.1	57.1	57.1	57.1
IV 9000	24.4	46.3	51.4	54.4	55.5	56.2	56.6	56.8	56.8	57.0	57.0	57.0	57.1	57.1	57.1	57.1
IV 8000	24.4	46.4	51.4	54.5	55.5	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.2	57.2	57.2	57.2
IV 7000	24.4	46.5	51.5	54.5	55.6	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.3	57.3	57.3	57.3
IV 6000	24.4	46.5	51.5	54.5	55.6	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.3	57.3	57.3	57.3
IV 5000	24.6	46.7	51.7	54.7	55.8	56.5	56.9	57.1	57.1	57.3	57.3	57.3	57.5	57.5	57.5	57.5
IV 4500	24.6	46.7	51.7	54.7	55.8	56.5	56.9	57.1	57.1	57.3	57.3	57.3	57.5	57.5	57.5	57.5
IV 4000	25.2	47.3	52.3	55.3	56.4	57.1	57.6	57.8	57.8	58.0	58.0	58.0	58.1	58.1	58.1	58.1
IV 3500	25.4	47.6	52.7	55.7	56.7	57.5	57.9	58.1	58.1	58.3	58.3	58.3	58.4	58.4	58.4	58.4
IV 3000	26.0	48.4	53.4	56.4	57.5	58.2	58.6	58.8	58.8	59.0	59.0	59.0	59.2	59.2	59.2	59.2
IV 2500	27.8	51.0	56.0	59.0	60.1	60.8	61.2	61.4	61.4	61.6	61.6	61.6	61.8	61.8	61.8	61.8
IV 2000	29.9	53.7	58.8	61.9	63.0	63.7	64.1	64.3	64.3	64.5	64.5	64.5	64.7	64.7	64.7	64.7
IV 1800	30.1	54.5	59.6	62.7	63.8	64.5	64.9	65.1	65.1	65.3	65.3	65.3	65.5	65.5	65.5	65.5
IV 1500	33.3	64.7	67.7	71.2	72.4	73.2	73.6	73.8	73.8	74.0	74.0	74.0	74.1	74.1	74.1	74.1
IV 1200	34.1	64.5	71.2	75.0	76.4	77.3	77.7	77.9	77.9	78.1	78.1	78.1	78.2	78.2	78.2	78.2
IV 1000	35.1	64.0	77.9	82.8	84.8	85.9	86.5	86.7	86.7	86.9	86.9	86.9	87.1	87.1	87.1	87.1
IV 900	35.1	69.6	78.9	84.2	86.2	87.8	88.2	88.4	88.4	88.6	88.6	88.6	88.7	88.7	88.7	88.7
IV 800	35.1	70.6	80.2	86.2	88.9	90.7	91.8	92.1	92.1	92.4	92.5	92.5	92.6	92.6	92.6	92.6
IV 700	35.2	71.0	80.8	87.1	90.1	92.2	93.5	93.9	93.9	94.2	94.3	94.3	94.4	94.4	94.4	94.4
IV 600	35.2	71.0	81.0	87.5	90.9	93.1	94.6	95.2	95.2	95.5	95.6	95.6	95.7	95.7	95.7	95.7
IV 500	35.2	71.0	81.0	87.7	91.6	94.0	95.7	96.7	96.7	97.1	97.1	97.1	97.3	97.3	97.3	97.3
IV 400	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.5	97.5	98.0	98.1	98.1	98.3	98.3	98.3	98.3
IV 300	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.4	98.6	98.6	98.9	98.9	99.0	99.0
IV 200	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.7	98.7	99.4	99.4	99.5	99.5
IV 100	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.8	98.8	99.6	99.6	99.8	99.8
IV 0	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.8	98.8	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1491

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

01

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

84

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-82

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

27

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≤ .10	≥ 0
NO CEILING	3.2	9.9	12.4	17.3	18.4	19.1	19.8	19.8	19.8	20.1	20.1	20.1	20.1	20.1	20.1
≥ 20000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5
WV 18000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5
WV 16000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5
WV 14000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5
WV 12000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5
WV 10000	3.2	10.6	13.1	18.4	19.4	20.1	20.9	20.9	20.9	21.2	21.2	21.2	21.2	21.2	21.2
WV 9000	3.2	10.6	13.1	18.4	19.4	20.1	20.9	20.9	20.9	21.2	21.2	21.2	21.2	21.2	21.2
WV 8000	3.2	11.0	13.4	18.7	19.8	20.5	21.2	21.2	21.2	21.6	21.6	21.6	21.6	21.6	21.6
WV 7000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 6000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 5000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 4500	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 4000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 3500	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9
WV 3000	3.2	11.3	13.8	19.1	20.1	20.9	21.2	21.9	21.9	22.3	22.3	22.3	22.3	22.3	22.3
WV 2500	3.2	11.3	14.1	19.4	20.5	21.2	21.9	21.9	21.9	22.3	22.3	22.3	22.3	22.3	22.3
WV 2000	3.5	11.7	14.5	19.8	20.9	21.6	22.3	22.6	22.6	23.0	23.0	23.0	23.0	23.0	23.0
WV 1800	3.5	11.7	14.5	19.8	20.9	21.6	22.3	22.6	22.6	23.0	23.0	23.0	23.0	23.0	23.0
WV 1500	5.7	19.1	23.3	29.0	30.0	30.7	31.5	31.8	31.8	32.2	32.2	32.2	32.2	32.2	32.2
WV 1200	7.8	25.8	30.7	37.8	38.9	39.6	40.3	40.6	40.6	41.0	41.0	41.0	41.0	41.0	41.0
WV 1000	8.5	34.3	42.8	50.9	55.1	57.2	58.0	58.3	58.3	59.0	59.0	59.0	59.0	59.0	59.0
WV 900	8.8	35.3	44.2	54.1	58.7	60.8	61.8	62.2	62.2	62.9	62.9	62.9	62.9	62.9	62.9
WV 800	8.8	37.5	47.4	61.4	68.9	72.4	75.6	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
WV 700	8.8	37.5	48.1	62.2	71.7	78.6	81.6	83.4	83.4	84.5	84.5	84.5	84.5	84.5	84.5
WV 600	8.8	37.8	48.8	63.6	73.5	78.1	85.2	87.3	87.3	88.3	88.3	88.3	88.3	88.3	88.3
WV 500	8.8	37.8	48.8	64.1	74.2	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.9	92.9	92.9
WV 400	8.8	37.8	48.8	64.7	74.6	80.2	88.0	92.9	92.9	94.4	94.4	94.4	95.1	95.1	95.1
WV 300	8.8	37.8	48.8	64.7	74.6	80.6	88.3	94.4	94.7	96.8	97.2	97.2	98.6	98.6	98.9
WV 200	8.8	37.8	48.8	64.7	74.6	80.6	88.3	94.4	94.7	96.8	97.5	97.5	99.3	99.3	99.3
WV 100	8.8	37.8	48.8	64.7	74.6	80.6	88.3	94.4	94.7	96.8	97.5	97.5	99.3	99.3	99.3
WV 0	8.8	37.8	48.8	64.7	74.6	80.6	88.3	94.4	94.7	96.8	97.5	97.5	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 203

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7-15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSJUL
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.7	39.3	48.8	55.4	59.3	60.4	60.7	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000	14.7	40.0	50.2	56.8	60.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 18000	14.7	40.0	50.2	56.8	60.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 16000	14.7	40.0	50.2	56.8	60.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 14000	15.1	40.0	50.2	57.5	61.8	62.8	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 12000	15.1	40.0	51.2	57.9	62.5	63.5	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 10000	15.1	41.0	51.9	59.0	63.5	64.6	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	15.1	41.0	51.9	59.0	63.5	64.6	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 7000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 6000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 5000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 4500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 4000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 3500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 3000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 2500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 2000	15.1	42.1	52.6	59.7	64.2	65.6	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 1800	16.1	42.5	53.0	60.0	64.6	66.0	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 1500	17.2	45.6	56.5	63.5	68.1	69.5	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
≥ 1200	19.3	49.8	61.4	69.1	74.0	75.4	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1000	19.7	53.3	66.3	75.1	81.8	83.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 900	19.7	53.7	67.4	76.1	83.2	84.6	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 800	19.7	54.4	68.1	77.2	84.2	86.0	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 700	19.7	54.4	68.4	78.3	86.0	88.1	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 600	19.7	54.4	68.4	79.0	86.7	89.1	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 500	19.7	54.4	68.4	79.0	87.4	90.9	94.0	95.1	95.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8
≥ 400	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.5	96.5	97.9	98.3	98.3	98.3	98.3	98.3	98.3
≥ 300	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	99.7	100.0	100.0	100.0
≥ 100	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	99.7	100.0	100.0	100.0
≥ 0	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

285

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-82

YEAR

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

13

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3 1/2	≥ 3	≥ 2 1/2	≥ 2 1/4	≥ 2 1/8	≥ 2	≥ 1 3/4	≥ 1 1/2	≥ 1 1/4	≥ 1 1/8	≥ 1
NO CEILING	29.4	61.0	67.0	71.9	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 20000	30.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 18000	30.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 16000	30.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 14000	31.2	62.5	69.8	75.1	77.9	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 12000	30.9	63.5	71.2	76.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 10000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 9000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 8000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 7000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 6000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 5000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 4500	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 4000	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 3500	30.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 3000	31.2	64.6	72.3	77.5	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2500	31.2	64.6	72.3	77.5	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2000	31.9	65.6	73.3	78.6	81.4	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 1800	32.3	66.0	73.7	79.0	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 1500	32.6	67.4	75.1	80.4	83.2	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 1200	34.7	67.5	77.2	82.8	85.6	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 1000	34.7	72.6	80.7	86.3	89.8	89.8	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 900	35.1	73.0	81.4	87.0	90.5	90.5	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 800	35.1	73.7	82.8	88.8	92.6	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 700	35.1	74.4	84.6	91.2	95.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 600	35.1	74.7	85.3	92.3	97.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	35.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 485

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	34.5	66.8	72.2	74.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 20000	39.7	71.9	75.6	77.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 18000	39.7	71.9	75.6	77.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 16000	39.7	71.9	75.6	77.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 14000	39.7	71.9	75.6	77.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 12000	39.7	72.7	76.9	79.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 10000	39.7	73.9	78.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 9000	39.7	73.9	78.2	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 8000	39.7	73.9	78.2	80.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 7000	40.2	74.4	78.6	80.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 6000	40.2	74.4	78.6	80.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 5000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 4000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 2500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 2000	41.5	76.1	81.3	82.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 1800	41.7	76.5	81.6	82.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 1600	42.7	77.4	81.6	83.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1400	42.7	77.4	81.6	83.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 1200	44.9	79.5	83.8	85.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1000	47.3	83.8	88.0	90.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 900	47.4	84.6	89.3	91.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 800	49.7	86.8	91.9	94.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	48.7	87.2	92.3	95.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 600	49.2	87.6	92.7	95.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	47.2	86.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 234

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.2	65.6	68.7	71.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 20000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
W 18000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
W 16000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
W 14000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
W 12000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
W 10000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 9000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 8000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 7000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 6000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 5000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 4500	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 4000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 3500	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 3000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 2500	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 2000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
W 1800	40.1	70.5	73.6	74.9	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
W 1500	41.0	72.7	76.2	77.5	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
W 1200	42.7	75.8	79.3	80.6	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
W 1000	47.1	83.7	87.2	88.6	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
W 900	47.6	85.9	89.9	91.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
W 800	48.0	86.3	90.8	92.1	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
W 700	48.0	87.2	92.1	93.8	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
W 600	48.0	88.6	93.8	95.2	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
W 500	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
W 400	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
W 300	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
W 200	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
W 100	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
W 0	48.0	88.6	93.8	95.2	98.7	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

227

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73.77-62

YEARS

JUL

MONTH

72

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	57.5	61.8	66.4	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 20000	17.7	61.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 18000	17.7	61.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 16000	17.7	61.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 14000	17.7	61.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 12000	17.7	61.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 10000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 9000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 8000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 7000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 6000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 5000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 4500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 4000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 3500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 3000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 2500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 2000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 1800	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 1500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 1200	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 1000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 900	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 800	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 700	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 600	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 400	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 300	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 200	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 100	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 0	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9

TOTAL NUMBER OF OBSERVATIONS

153

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.2	40.5	53.3	57.6	59.7	60.1	60.4	60.4	60.4	60.6	60.6	61.6	61.6	60.6	61.6	61.6
≥ 20000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 18000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 16000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 14000	23.6	50.0	55.3	59.7	61.9	62.2	62.5	62.5	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000	23.7	50.5	55.8	60.2	62.5	62.8	63.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000	23.7	51.3	56.6	61.4	63.4	63.7	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 9000	23.8	51.3	56.6	61.4	63.4	63.7	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 8000	23.8	51.4	56.7	61.2	63.4	63.6	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 7000	23.8	51.5	56.8	61.3	63.6	64.1	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 6000	23.9	51.5	56.8	61.3	63.6	64.0	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 5000	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 4500	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 4000	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 3500	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 3000	24.0	51.7	57.1	61.6	63.8	64.2	64.5	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 2500	24.1	51.7	57.3	61.6	64.1	64.4	64.7	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 2000	24.7	52.7	58.1	62.6	64.9	65.3	65.5	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 1800	24.9	52.1	58.5	62.9	65.2	65.6	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 1500	26.2	52.3	62.1	66.7	68.9	69.4	69.7	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 1200	27.7	60.0	66.1	71.1	73.4	73.8	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 1000	29.2	65.5	72.7	76.3	82.1	82.8	83.2	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 900	29.4	66.4	74.0	79.9	83.9	84.6	85.1	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 800	29.8	67.0	75.6	82.5	87.4	88.6	89.7	90.7	90.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9
≥ 700	29.8	68.4	76.9	84.3	89.7	91.1	92.7	93.1	93.1	93.4	93.5	93.5	93.5	93.5	93.5	93.5
≥ 600	29.8	68.7	77.5	85.4	90.9	92.6	94.6	95.0	95.0	95.4	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	29.8	68.7	77.9	86.2	92.4	93.9	96.2	97.2	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 400	29.8	68.8	78.0	86.4	92.2	94.4	96.7	97.9	97.9	98.5	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

1465

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73

YEARS

4 5 6

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0 4
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73

YEARS

AUG

MONTH

04

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

97

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	3.8	6.4	10.7	11.8	14.5	15.2	16.3	16.3	16.3	16.6	16.6	16.6	17.0	17.0	17.0	17.3
≥ 20000	3.8	7.3	11.1	12.1	14.5	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
≥ 18000	3.8	7.3	11.1	12.1	14.5	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
≥ 16000	3.8	7.3	11.1	12.1	14.5	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
≥ 14000	3.8	7.3	11.1	12.1	15.2	15.9	17.0	17.0	17.0	17.3	17.3	17.3	17.7	17.7	17.7	18.0
≥ 12000	3.8	8.3	11.8	12.9	15.2	16.6	17.7	17.7	17.7	18.0	18.0	18.0	18.3	18.3	18.3	18.7
≥ 10000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
≥ 9000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
≥ 8000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
≥ 7000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
≥ 6000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
≥ 5000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
≥ 4500	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
≥ 4000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
≥ 3500	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
≥ 3000	4.5	9.0	12.8	13.8	17.3	18.0	19.0	19.4	19.4	19.7	19.7	19.7	20.1	20.1	20.1	20.4
≥ 2500	6.6	11.4	15.2	16.3	19.7	20.4	21.5	21.8	21.8	22.2	22.2	22.2	22.5	22.5	22.5	22.8
≥ 2000	9.7	14.9	18.7	19.7	23.2	23.9	24.9	25.3	25.3	25.6	25.6	25.6	26.0	26.0	26.0	26.3
≥ 1800	10.4	15.6	19.4	20.4	23.9	24.6	25.6	26.0	26.0	26.3	26.3	26.3	26.6	26.6	26.6	27.0
≥ 1500	13.2	23.9	29.8	31.1	34.6	35.3	36.3	36.7	36.7	37.0	37.0	37.0	37.4	37.4	37.4	37.7
≥ 1200	14.5	30.5	37.4	41.2	45.3	46.0	47.1	47.4	47.4	47.8	47.8	47.8	48.1	48.1	48.1	48.4
≥ 1000	15.6	36.7	49.1	57.1	64.7	66.1	67.5	67.8	67.8	68.2	68.2	68.2	68.5	68.5	68.5	68.9
≥ 900	15.6	37.7	50.5	59.5	67.5	69.2	71.6	72.0	72.0	72.3	72.3	72.3	72.7	72.7	72.7	73.0
≥ 800	15.6	38.8	53.3	62.6	74.7	77.9	82.0	83.0	83.0	83.4	83.4	83.4	83.7	83.7	83.7	84.1
≥ 700	15.6	38.8	53.3	63.0	78.2	82.0	87.2	88.2	88.2	88.6	88.6	88.6	88.9	88.9	88.9	89.3
≥ 600	15.6	38.8	53.3	63.0	78.9	83.0	88.9	90.0	90.0	90.7	90.7	90.7	91.0	91.0	91.0	91.4
≥ 500	15.6	38.8	53.3	63.0	79.2	83.4	89.6	91.7	91.7	93.1	93.1	93.1	93.8	93.8	93.8	94.1
≥ 400	15.6	38.8	53.3	63.0	79.2	84.1	90.7	92.7	92.7	94.1	94.1	94.1	95.2	95.2	95.2	95.9
≥ 300	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	95.9	95.9	95.9	96.5
≥ 200	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2
≥ 100	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2
≥ 0	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

13-82

AUG

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	19.7	45.3	58.1	61.9	65.1	66.4	68.2	68.5	68.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2
N 20000	19.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
N 18000	19.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
N 16000	18.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
N 14000	18.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
N 12000	18.0	45.7	58.5	62.6	65.7	67.5	69.6	69.9	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6
N 10000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
N 9000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
N 8000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
N 7000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
N 6000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
N 5000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
N 4500	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
N 4000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
N 3500	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
N 3000	18.7	46.4	59.5	63.7	67.5	69.2	71.3	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
N 2500	19.7	47.4	60.6	64.7	68.5	70.2	72.3	72.7	72.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4
N 2000	20.4	48.4	62.3	66.4	70.2	72.0	74.1	74.4	74.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1
N 1800	20.8	48.8	62.6	66.8	70.6	72.3	74.4	74.7	74.7	75.4	75.4	75.4	75.4	75.4	75.4	75.4
N 1500	23.5	52.6	67.1	72.7	76.5	78.2	80.3	80.6	80.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3
N 1200	23.5	53.6	68.5	75.1	79.2	81.0	83.0	83.4	83.4	84.1	84.1	84.1	84.1	84.1	84.1	84.1
N 1000	23.5	54.3	70.9	78.9	83.7	85.8	88.2	88.6	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3
N 900	23.5	54.3	71.3	79.6	84.4	86.5	89.3	89.6	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3
N 800	23.5	54.3	72.3	80.6	86.5	89.3	92.4	92.7	92.7	93.4	93.4	93.4	93.4	93.4	93.4	93.4
N 700	23.5	54.3	72.7	81.0	87.2	90.7	94.1	94.5	94.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2
N 600	23.5	54.3	72.7	81.0	87.5	91.7	95.2	95.9	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
N 500	23.5	54.7	73.4	81.7	88.2	92.4	95.9	96.5	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2
N 400	23.5	55.0	73.7	82.0	88.6	92.7	96.2	96.9	96.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
N 300	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
N 200	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
N 100	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
N 0	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.5	67.5	76.1	78.9	81.7	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 20000	40.1	68.5	77.2	80.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 18000	40.1	68.5	77.2	80.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 16000	40.1	68.5	77.2	80.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 14000	40.1	68.5	77.2	80.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 12000	40.5	68.9	77.9	81.0	83.7	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 10000	41.2	69.6	78.6	82.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 9000	41.2	69.6	78.6	82.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 8000	41.2	69.9	78.9	82.4	85.5	85.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 7000	41.2	69.9	78.9	82.4	85.5	85.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 6000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4500	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000	41.5	70.2	79.6	83.0	86.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2500	41.5	70.2	79.6	83.0	86.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
≥ 2000	41.5	70.6	79.9	83.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800	41.9	70.6	79.9	83.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500	42.6	72.3	82.0	85.5	88.6	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1200	42.6	73.7	83.4	86.9	90.0	90.7	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1000	42.9	76.5	87.5	91.4	94.8	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900	42.9	76.5	87.5	91.4	94.8	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 800	42.9	76.5	87.5	91.4	94.8	96.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 700	42.9	76.5	87.5	91.7	95.2	96.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 600	42.9	76.5	87.5	91.7	95.2	96.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	42.9	76.5	87.5	91.7	95.2	96.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	42.9	76.5	87.5	91.7	95.2	96.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.3	99.7	99.7	99.7	100.0	100.0	100.0
≥ 100	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.3	99.7	99.7	99.7	100.0	100.0	100.0
≥ 0	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.7	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	46.1	75.9	75.2	77.5	78.7	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 20000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVV 18000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVV 16000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVV 14000	46.1	73.6	78.3	80.6	81.8	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IVV 12000	46.1	74.4	79.1	81.4	82.6	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IVV 10000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVV 9000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVV 8000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVV 7000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVV 6000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 5000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 4500	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 4000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 3500	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 3000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVV 2500	47.3	76.0	80.6	83.3	84.9	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IVV 2000	48.5	77.1	81.8	84.5	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IVV 1800	48.8	77.5	82.2	84.9	86.4	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IVV 1500	49.6	78.7	83.3	86.1	87.6	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IVV 1200	52.3	83.0	87.6	90.7	92.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IVV 1000	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVV 900	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVV 800	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVV 700	53.5	86.4	91.1	94.6	97.7	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IVV 600	53.5	86.4	91.1	95.0	98.1	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IVV 500	53.9	86.8	91.5	95.4	98.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVV 400	53.9	86.8	91.5	95.4	98.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVV 300	53.9	86.8	91.5	95.4	98.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVV 200	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVV 100	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVV 0	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	34.2	65.4	67.9	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 20000	34.6	67.5	70.4	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 18000	34.6	67.9	70.8	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 16000	34.6	67.9	70.8	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
≥ 14000	34.6	68.3	71.3	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 12000	34.6	68.8	72.1	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 10000	35.0	69.6	72.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 9000	35.0	69.6	72.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 8000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 7000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 6000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 5000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 4500	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 4000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 3500	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 3000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 2500	36.3	70.8	74.2	75.4	76.3	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 2000	38.3	73.3	76.7	77.9	78.8	78.8	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 1800	38.3	73.3	76.7	77.9	78.8	78.8	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 1600	39.6	76.3	79.6	80.8	81.7	81.7	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 1400	41.3	78.8	82.9	84.6	85.8	85.8	85.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1200	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1000	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 700	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 600	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 500	42.1	83.3	88.3	91.0	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 400	42.5	85.8	91.7	95.0	98.3	98.3	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	42.5	85.8	91.7	95.0	98.3	98.3	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	42.5	85.8	91.7	95.0	98.3	98.3	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	42.5	85.8	91.7	95.0	98.3	98.3	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	42.5	85.8	91.7	95.0	98.3	98.3	98.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

247

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73,77-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 18000	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 16000	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 14000	19.4	49.7	52.3	54.2	54.8	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 12000	19.4	50.3	52.9	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 10000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 9000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 8000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 7000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 6000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 5000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 4500	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 4000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 3500	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 3000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 2500	21.9	54.8	57.4	59.4	60.0	60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 2000	22.6	55.5	58.1	60.0	60.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 1800	22.6	55.5	58.1	60.0	60.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 1500	25.2	65.2	67.7	69.7	70.3	70.3	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 1200	25.8	70.3	72.9	75.5	76.8	76.8	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 1000	25.8	82.6	85.2	87.7	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 900	25.8	82.6	87.1	90.3	92.3	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 800	25.8	83.9	89.0	92.3	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 700	25.8	84.5	89.7	94.2	96.1	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 600	25.8	84.5	89.7	94.2	96.1	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 500	25.8	85.2	90.3	94.8	96.8	97.4	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	25.8	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.8	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.8	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.8	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	25.8	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	26.7	51.1	56.2	56.5	60.5	60.8	61.6	61.7	61.7	61.9	61.9	61.9	62.7	62.7	62.7	62.7
≥ 20000	26.7	51.1	57.2	59.5	61.4	61.8	62.6	62.8	62.8	62.9	62.9	62.9	63.0	63.0	63.0	63.1
IV 18000	26.7	51.9	57.2	59.5	61.5	61.9	62.7	62.8	62.8	63.0	63.0	63.0	63.1	63.1	63.1	63.1
IV 16000	26.7	50.9	57.2	59.5	61.5	61.9	62.7	62.8	62.8	63.0	63.0	63.0	63.1	63.1	63.1	63.1
IV 14000	27.0	51.3	57.8	59.9	62.0	62.4	63.1	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.6
IV 12000	27.1	51.8	58.3	60.6	62.7	63.1	63.9	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.4
IV 10000	27.4	52.5	59.0	61.4	63.7	64.2	65.0	65.1	65.1	65.3	65.3	65.3	65.4	65.4	65.4	65.4
IV 9000	27.4	52.5	59.0	61.4	63.7	64.2	65.0	65.1	65.1	65.3	65.3	65.3	65.4	65.4	65.4	65.4
IV 8000	27.4	52.6	59.1	61.5	63.9	64.3	65.1	65.2	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.6
IV 7000	27.4	52.6	59.1	61.5	63.9	64.3	65.1	65.2	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.6
IV 6000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.7	66.7	66.7	66.1
IV 5000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.7	66.7	66.7	66.1
IV 4500	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.7	66.7	66.7	66.1
IV 4000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.7	66.7	66.7	66.1
IV 3500	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.7	66.7	66.7	66.1
IV 3000	27.7	53.0	59.5	62.0	64.5	64.9	65.7	66.0	66.0	66.2	66.2	66.2	66.3	66.3	66.3	66.4
IV 2500	28.8	54.1	60.7	63.2	65.6	66.1	66.9	67.2	67.2	67.4	67.4	67.4	67.5	67.5	67.5	67.5
IV 2000	30.2	55.7	62.4	64.9	67.4	67.8	68.6	68.9	68.9	69.1	69.1	69.1	69.2	69.2	69.2	69.3
IV 1800	30.5	56.0	62.7	65.2	67.6	68.1	68.9	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.5
IV 1500	32.3	60.3	67.5	70.4	72.8	73.3	74.1	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.7
IV 1200	33.3	63.6	71.3	75.0	77.8	78.4	79.2	79.5	79.5	79.7	79.7	79.7	79.8	79.8	79.8	79.8
IV 1000	33.4	67.9	77.3	82.3	86.1	87.0	87.9	88.2	88.2	88.4	88.4	88.4	88.5	88.5	88.5	88.6
IV 900	33.9	68.1	78.1	83.5	87.5	88.4	89.6	90.0	90.0	90.1	90.1	90.1	90.2	90.2	90.2	90.3
IV 800	33.9	68.7	79.2	84.8	89.8	91.3	92.9	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.7
IV 700	33.9	68.9	79.6	85.4	91.3	93.2	95.1	95.6	95.6	95.8	95.8	95.8	95.9	95.9	95.9	95.9
IV 600	33.9	68.9	79.6	85.5	91.6	93.7	95.8	96.3	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7
IV 500	34.7	69.1	79.8	85.7	92.0	94.1	96.7	97.4	97.4	97.8	97.8	97.8	97.9	97.9	97.9	98.0
IV 400	34.7	69.3	80.0	85.9	92.2	94.4	97.0	97.8	97.8	98.2	98.2	98.2	98.4	98.4	98.5	98.6
IV 300	34.7	69.3	80.0	85.9	92.2	94.5	97.2	98.0	98.0	98.5	98.7	98.7	99.0	99.0	99.0	99.1
IV 200	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.8	98.8	99.4	99.5	99.7	99.8
IV 100	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.8	98.8	99.4	99.5	99.8	100.0
IV 0	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.8	98.8	99.4	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1922

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BLACH, CALIFORNIA

STATION NAME

73

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

31
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 18000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 16000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 14000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 12000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 10000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

5.15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME

73

YEARS

SEP
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)4
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 20000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 18000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 16000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 14000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 12000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 10000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 9000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 8000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 7000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 6000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 5000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 4500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 4000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 2500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 2000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 900	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 700	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 600	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 400	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 300	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 100	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	9.2	10.5	22.4	25.4	26.1	26.5	27.6	28.3	28.3	29.0	29.0	29.0	27.4	29.4	29.8	29.4
≥ 20000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	27.8	29.8	29.8	29.8
≥ 18000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 16000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 14000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 12000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 10000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 9000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 8000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 7000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 6000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 5000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 4500	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 4000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
≥ 3500	10.3	21.0	26.8	30.2	30.9	31.3	32.4	33.1	33.1	33.8	33.8	33.8	34.2	34.2	34.2	34.2
≥ 3000	10.7	21.7	27.9	31.3	32.0	32.4	33.5	34.2	34.2	34.9	34.9	34.9	35.3	35.3	35.3	35.3
≥ 2500	14.0	27.6	34.2	37.5	38.2	38.6	39.7	40.4	40.4	41.2	41.2	41.2	41.5	41.5	41.5	41.5
≥ 2000	16.5	31.6	38.6	42.3	43.4	43.8	44.9	45.6	45.6	46.3	46.3	46.3	46.7	46.7	46.7	46.7
≥ 1800	16.9	32.0	39.7	43.4	44.5	44.9	46.0	46.7	46.7	47.4	47.4	47.4	47.8	47.8	47.8	47.8
≥ 1500	19.5	37.1	46.3	51.1	53.3	53.7	55.2	55.9	55.9	56.6	56.6	56.6	57.0	57.0	57.0	57.0
≥ 1200	19.9	40.4	51.8	58.1	61.0	61.4	62.9	63.6	63.6	64.3	64.3	64.3	64.7	64.7	64.7	64.7
≥ 1000	19.9	44.1	58.1	65.1	69.5	70.2	72.1	72.8	72.8	73.5	73.5	73.5	73.9	73.9	73.9	73.9
≥ 900	19.9	44.5	58.8	66.2	71.0	71.7	73.5	74.3	74.3	75.0	75.0	75.0	75.4	75.4	75.4	75.4
≥ 800	19.9	44.5	59.2	67.3	75.4	76.1	79.8	80.5	80.5	81.6	82.0	82.0	82.4	82.4	82.4	82.4
≥ 700	20.2	44.9	59.9	68.4	76.8	77.6	82.0	83.8	83.8	84.9	85.3	85.3	85.7	85.7	85.7	85.7
≥ 600	20.2	44.9	59.9	68.8	78.7	80.2	84.6	86.8	86.8	88.2	88.6	88.6	89.7	89.7	89.7	89.7
≥ 500	20.2	44.9	59.9	68.8	79.0	80.9	85.7	89.7	89.7	90.8	91.2	91.2	91.5	91.5	91.5	91.5
≥ 400	20.2	45.2	60.3	69.1	79.4	81.3	86.4	90.1	90.1	92.3	92.7	92.7	93.4	93.4	93.4	93.4
≥ 300	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.0	93.4	93.4	94.1	94.1	94.1	94.1
≥ 200	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.8	94.9	94.9	96.0	96.0	96.0	96.0
≥ 100	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.8	94.9	94.9	97.1	97.1	97.1	97.1
≥ 0	20.2	45.2	60.3	69.1	79.4	81.3	87.1	91.2	91.2	94.1	95.2	95.2	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-92

YEARS

SEP

MONTH

HOURS (L & T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	17.7	36.4	46.6	51.1	54.4	55.9	58.5	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 20000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 18000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 16000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 14000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 12000	17.7	37.9	47.4	52.9	56.3	57.7	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 10000	17.7	38.6	48.5	54.0	57.4	58.8	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 9000	17.7	38.6	48.5	54.0	57.4	58.8	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 8000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 7000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 6000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 5000	18.4	39.3	49.3	54.8	58.1	59.6	62.1	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 4500	18.4	39.3	49.3	54.8	58.1	59.6	62.1	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 4000	18.8	39.7	49.6	55.2	58.5	59.9	62.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 3500	20.2	41.5	51.5	57.0	60.3	61.8	64.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 3000	21.7	43.8	53.7	59.6	62.9	64.3	66.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 2500	22.8	45.2	55.5	61.4	64.7	66.2	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 2000	25.4	51.8	62.9	68.8	72.1	73.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1800	25.4	51.8	62.9	68.8	72.1	73.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1500	25.5	55.7	67.3	73.9	77.9	79.4	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1200	26.8	57.7	71.1	77.6	82.7	83.5	86.4	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1000	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 900	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 800	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 700	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 600	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 500	27.9	59.2	72.4	81.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 400	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 300	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 200	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 100	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 0	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS

272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)15
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	31.5	55.2	62.5	64.7	66.5	67.3	68.4	68.4	69.4	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 20000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 18000	31.5	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 16000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 14000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 12000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 10000	31.6	58.1	66.2	68.8	70.6	71.3	72.8	72.8	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 9000	31.6	58.1	66.2	68.8	70.6	71.3	72.8	72.8	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 8000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 7000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 6000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 5000	32.1	58.2	67.3	70.2	72.1	72.8	74.3	74.3	74.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4500	32.0	58.2	67.3	70.2	72.1	72.8	74.3	74.3	74.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4000	32.4	58.6	67.7	70.6	72.4	73.2	74.6	74.6	74.6	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3500	33.1	60.3	68.4	71.3	73.2	73.9	75.4	75.4	75.4	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 3000	35.3	63.2	71.3	74.3	76.1	76.8	78.3	78.3	78.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 2500	35.7	64.7	72.8	75.7	77.6	78.3	79.8	79.8	79.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 2000	36.8	66.9	75.0	77.9	80.2	80.9	82.4	82.4	82.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 1800	36.2	67.3	75.4	78.3	80.5	81.3	82.7	82.7	82.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 1500	37.0	67.9	78.3	81.3	83.8	84.6	86.0	86.0	86.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 1200	37.9	71.7	81.3	84.2	87.1	87.9	89.3	89.3	89.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 1000	38.2	72.8	83.5	86.8	90.1	90.8	92.3	92.3	92.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 900	38.2	72.8	83.8	87.1	90.4	91.2	93.0	93.0	93.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 800	38.6	73.2	84.9	88.2	91.5	92.3	94.1	94.1	94.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 700	38.6	73.2	84.9	88.2	92.3	93.0	94.9	95.2	95.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 600	38.6	73.2	85.3	88.6	92.7	93.6	95.6	96.0	96.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 500	38.6	73.2	85.7	88.6	92.7	93.6	95.6	96.0	96.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 400	38.6	73.5	85.7	89.0	93.0	94.1	96.0	96.3	96.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	38.6	73.5	85.7	89.0	93.4	94.5	96.7	96.7	96.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 200	38.6	73.5	85.7	89.0	93.4	94.5	96.7	97.1	97.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9
IV 100	38.6	73.5	85.7	89.3	93.8	94.9	97.1	97.4	97.4	98.9	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	38.6	73.5	85.7	89.3	93.8	94.9	97.1	97.4	97.4	98.9	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

1992

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	24.3	63.1	62.1	62.2	71.6	70.6	71.9	72.3	72.3	72.8	72.8	72.8	73.2	73.2	73.2	73.2
≥ 20000	35.7	64.3	69.8	71.6	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 18000	35.7	64.3	69.8	71.6	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 16000	35.7	64.3	69.8	71.6	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 14000	35.7	64.3	69.8	71.6	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 12000	35.7	64.3	69.8	71.6	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 10000	37.5	67.7	73.2	74.5	76.2	76.2	77.5	77.9	77.9	78.3	78.3	78.3	78.7	78.7	78.7	78.7
≥ 9000	37.5	67.7	73.2	74.5	76.2	76.2	77.5	77.9	77.9	78.3	78.3	78.3	78.7	78.7	78.7	78.7
≥ 8000	37.5	68.1	73.6	75.3	77.0	77.0	78.3	78.7	78.7	79.2	79.2	79.2	79.6	79.6	79.6	79.6
≥ 7000	37.5	68.1	73.6	75.3	77.0	77.0	78.3	78.7	78.7	79.2	79.2	79.2	79.6	79.6	79.6	79.6
≥ 6000	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 5000	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 4500	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 4000	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 3500	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 3000	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 2500	42.1	74.5	80.4	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 2000	42.1	74.5	80.4	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 1800	42.1	74.5	80.4	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 1500	42.1	74.5	80.4	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 1200	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 1000	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 900	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 800	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 700	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 600	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 500	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 400	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 300	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 200	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 100	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 0	44.7	80.9	87.7	89.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0

TOTAL NUMBER OF OBSERVATIONS

235

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-82

YEARS

SEP

MONTH

15

HOURS (L & T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.5	56.6	67.2	61.5	64.6	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥ 20000	23.5	56.6	67.2	61.5	64.6	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 18000	23.5	56.6	67.2	61.5	64.6	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 16000	23.5	56.6	67.2	61.5	64.6	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 14000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 12000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 10000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 9000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 8000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 7000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 6000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 5000	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 4500	24.3	56.7	67.4	62.7	66.8	66.8	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 4000	25.2	61.1	65.5	66.8	69.9	69.9	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3500	25.7	61.5	65.9	67.3	70.4	70.4	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	26.1	62.6	67.3	68.6	71.7	71.7	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 2500	26.6	64.2	68.6	69.9	73.0	73.0	73.0	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 2000	26.8	67.3	71.7	73.0	76.1	76.1	76.1	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 1800	27.2	67.7	72.1	73.5	76.6	76.6	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 1500	27.7	73.9	78.8	80.1	83.2	83.2	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 1200	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1000	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 900	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 800	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 700	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 600	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 500	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 400	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 300	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 200	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 100	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 0	31.5	71.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4

TOTAL NUMBER OF OBSERVATIONS

226

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73.77-82

YEARS

SLP
MONTH

22

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼
NO CEILING	15.5	47.9	51.4	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.9
≥ 20000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8
IV 18000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8
IV 16000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8
IV 14000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8
IV 12000	16.2	51.4	55.6	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2
IV 10000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 9000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 8000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 7000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 6000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 5000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 4500	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 4000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 3500	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9
IV 3000	17.6	53.5	57.8	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	61.3
IV 2500	17.6	54.2	58.5	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	62.0
IV 2000	20.4	57.8	62.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	65.5
IV 1800	20.4	58.5	62.7	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	66.2
IV 1500	23.2	66.2	70.4	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.9
IV 1200	24.7	75.9	78.2	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 1000	25.1	82.4	87.3	92.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 900	25.1	82.4	87.3	92.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.4
IV 800	25.1	83.8	89.4	94.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.5
IV 700	25.1	83.8	89.4	94.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	97.2
IV 600	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.9
IV 500	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	98.6
IV 400	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	99.3
IV 300	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	99.3
IV 200	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	99.3
IV 100	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	99.3
IV 0	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	99.3

TOTAL NUMBER OF OBSERVATIONS

142

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

SEP

MONTH

ALL

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	22.2	44.9	51.1	53.7	55.6	56.1	57.2	57.7	57.7	58.0	58.0	58.0	58.2	58.2	59.2	59.2
≥ 20000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
≥ 18000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
≥ 16000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
≥ 14000	22.6	46.2	52.6	55.4	57.3	57.8	59.0	59.4	59.4	59.8	59.8	59.8	59.9	59.9	60.0	60.0
≥ 12000	22.6	47.1	53.5	56.3	58.2	58.7	59.9	60.3	60.3	60.6	60.6	60.6	60.8	60.8	60.8	60.8
≥ 10000	22.9	46.5	54.5	57.5	59.4	59.9	61.0	61.5	61.5	61.8	61.8	61.8	62.0	62.0	62.0	62.0
≥ 9000	22.9	46.5	54.5	57.5	59.4	59.9	61.0	61.5	61.5	61.8	61.8	61.8	62.0	62.0	62.0	62.0
≥ 8000	23.1	46.3	54.9	58.0	59.9	60.4	61.6	62.0	62.0	62.4	62.4	62.4	62.5	62.5	62.6	62.6
≥ 7000	23.1	46.4	55.0	58.1	60.0	60.5	61.7	62.1	62.1	62.5	62.5	62.5	62.6	62.6	62.7	62.7
≥ 6000	23.1	46.5	55.1	58.2	60.1	60.6	61.7	62.2	62.2	62.5	62.5	62.5	62.7	62.7	62.7	62.7
≥ 5000	23.2	46.8	55.4	58.5	60.4	60.9	62.1	62.5	62.5	62.9	62.9	62.9	63.0	63.0	63.1	63.1
≥ 4500	23.2	46.8	55.4	58.5	60.4	60.9	62.1	62.5	62.5	62.9	62.9	62.9	63.0	63.0	63.1	63.1
≥ 4000	23.6	47.2	55.8	58.9	60.8	61.3	62.5	62.9	62.9	63.3	63.3	63.3	63.4	63.4	63.5	63.5
≥ 3500	24.3	50.1	56.7	59.8	61.7	62.2	63.4	63.8	63.8	64.1	64.1	64.1	64.3	64.3	64.4	64.4
≥ 3000	25.5	51.8	58.5	61.7	63.6	64.1	65.3	65.7	65.7	66.1	66.1	66.1	66.2	66.2	66.3	66.3
≥ 2500	26.6	53.9	60.8	63.9	65.8	66.3	67.6	67.9	67.9	68.4	68.4	68.4	68.5	68.5	68.6	68.6
≥ 2000	28.7	57.5	64.5	67.7	69.8	70.3	71.5	71.9	71.9	72.3	72.3	72.3	72.4	72.4	72.5	72.5
≥ 1800	28.8	58.0	65.1	68.4	70.4	70.9	72.1	72.5	72.5	72.9	72.9	72.9	73.1	73.1	73.1	73.1
≥ 1500	30.5	62.4	70.3	73.9	76.4	76.9	78.1	78.6	78.6	79.0	79.0	79.0	79.1	79.1	79.2	79.2
≥ 1200	30.9	65.9	74.8	78.8	81.5	82.0	83.3	83.8	83.8	84.2	84.2	84.2	84.3	84.3	84.4	84.4
≥ 1000	31.7	68.9	78.8	83.6	87.1	87.6	89.1	89.5	89.5	89.9	89.9	89.9	90.1	90.1	90.2	90.2
≥ 900	31.7	69.1	79.4	84.3	88.0	88.5	90.1	90.5	90.5	90.9	90.9	90.9	91.1	91.1	91.1	91.1
≥ 800	31.8	69.4	80.2	85.3	89.7	90.4	92.3	92.8	92.8	93.3	93.3	93.3	93.4	93.5	93.6	93.6
≥ 700	31.9	69.6	80.7	86.0	90.7	91.4	93.5	94.3	94.3	94.9	94.9	94.9	95.1	95.1	95.2	95.2
≥ 600	31.9	69.7	80.9	86.3	91.3	92.2	94.3	95.2	95.2	95.9	95.9	95.9	96.1	96.1	96.2	96.2
≥ 500	31.9	69.7	80.9	86.4	91.5	92.5	94.7	95.9	95.9	96.8	96.8	96.8	97.0	97.0	97.1	97.1
≥ 400	31.9	69.9	81.2	86.6	91.8	92.8	95.2	96.4	96.4	97.4	97.4	97.4	97.5	97.5	97.7	97.7
≥ 300	31.9	69.9	81.2	86.6	92.0	93.0	95.4	96.8	96.8	97.8	97.8	97.8	98.0	98.0	98.2	98.2
≥ 200	31.9	69.9	81.2	86.6	92.0	93.0	95.5	97.1	97.1	98.2	98.2	98.2	98.5	98.5	98.9	98.9
≥ 100	31.9	69.9	81.2	86.6	92.1	93.0	95.6	97.2	97.2	98.3	98.3	98.3	98.6	98.6	99.2	99.2
≥ 0	31.9	69.9	81.2	86.6	92.1	93.0	95.6	97.3	97.3	98.4	98.4	98.4	98.7	98.7	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

1422

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

067
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
7-15

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-87

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)77
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	17.8	31.4	33.7	36.2	39.9	41.3	43.5	43.8	43.8	44.9	45.3	45.3	46.4	46.4	46.4	46.7
≥ 20000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
≥ 18000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
≥ 16000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
≥ 14000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
≥ 12000	18.5	31.5	34.8	37.3	41.3	43.1	45.7	46.0	46.0	47.1	47.5	47.5	48.6	48.6	48.6	48.9
≥ 10000	18.8	31.9	35.5	38.4	42.8	44.6	47.1	47.5	47.5	48.6	48.9	48.9	50.0	50.0	50.0	50.4
≥ 9000	18.8	31.9	35.5	38.4	42.8	44.6	47.1	47.5	47.5	48.6	48.9	48.9	50.0	50.0	50.0	50.4
≥ 8000	18.8	33.0	36.6	39.5	43.8	45.7	48.2	48.6	48.6	49.6	50.0	50.0	51.1	51.1	51.1	51.5
≥ 7000	19.2	33.7	37.3	40.2	44.6	46.4	48.9	49.3	49.3	50.4	50.7	50.7	51.8	51.8	51.8	52.2
≥ 6000	19.2	33.7	37.3	40.2	44.6	46.4	48.9	49.3	49.3	50.4	50.7	50.7	51.8	51.8	51.8	52.2
≥ 5000	19.6	34.1	37.7	40.9	45.3	47.1	49.6	50.0	50.0	51.1	51.5	51.5	52.5	52.5	52.5	52.9
≥ 4500	19.6	34.1	37.7	40.9	45.3	47.1	49.6	50.0	50.0	51.1	51.5	51.5	52.5	52.5	52.5	52.9
≥ 4000	19.6	34.1	37.7	40.9	45.3	47.1	49.6	50.0	50.0	51.1	51.5	51.5	52.5	52.5	52.5	52.9
≥ 3500	19.6	34.4	38.0	41.3	45.7	47.5	50.0	50.4	50.4	51.5	51.8	51.8	52.9	52.9	52.9	53.3
≥ 3000	21.7	35.9	39.9	43.1	47.5	49.3	51.8	52.2	52.2	53.3	53.6	53.6	54.7	54.7	54.7	55.1
≥ 2500	23.6	39.9	44.2	47.8	52.2	54.0	56.5	56.9	56.9	58.0	58.3	58.3	59.4	59.4	59.4	59.8
≥ 2000	26.1	44.9	49.6	53.3	57.6	59.4	62.3	62.7	62.7	63.8	64.1	64.1	65.2	65.2	65.2	65.6
≥ 1800	26.5	45.7	50.7	54.4	58.7	60.5	63.4	63.8	63.8	64.9	65.2	65.2	66.3	66.3	66.3	66.7
≥ 1500	27.5	47.5	54.0	58.0	62.7	64.5	67.4	68.1	68.1	69.2	69.6	69.6	70.7	70.7	70.7	71.0
≥ 1200	29.0	49.3	56.2	60.1	65.6	67.4	70.3	71.0	71.0	72.0	73.2	73.2	74.3	74.3	74.3	74.6
≥ 1000	29.4	51.0	57.3	61.2	67.8	70.3	74.6	75.7	75.7	76.6	79.0	79.0	80.1	80.1	80.1	80.4
≥ 900	29.7	51.4	57.6	62.0	69.2	71.7	76.1	77.2	77.2	78.0	80.4	80.4	81.5	81.5	81.5	81.9
≥ 800	29.7	50.4	57.6	62.0	69.9	72.5	78.6	82.3	82.3	83.5	85.9	85.9	88.0	88.0	88.0	88.3
≥ 700	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.0	83.0	87.0	87.3	87.3	89.9	89.9	89.9	90.6
≥ 600	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.0	83.0	87.0	87.7	87.7	90.2	90.2	90.2	90.9
≥ 500	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.3	83.3	87.7	88.4	88.4	91.3	91.3	91.3	92.0
≥ 400	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.3	83.3	87.7	88.8	88.8	91.7	91.7	91.7	92.8
≥ 300	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	92.8	93.1	93.1	95.3
≥ 200	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	93.5	94.2	94.2	97.1
≥ 100	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	93.5	94.2	94.2	97.1
≥ 0	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	93.5	94.2	94.2	97.1

TOTAL NUMBER OF OBSERVATIONS

276

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7.15
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSOCT
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	26.7	38.8	49.1	54.1	58.7	60.1	64.1	65.8	65.8	66.2	66.2	66.2	66.2	66.2	66.6	66.6
N 20000	27.1	41.6	52.3	57.3	61.9	63.4	67.3	69.0	69.0	69.4	69.4	69.4	69.4	69.8	70.1	70.1
N 18000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	69.8	70.1	70.1	70.1	70.5	70.5
N 16000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	69.8	70.1	70.1	70.1	70.5	70.5
N 14000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	69.8	70.1	70.1	70.1	70.5	70.5
N 12000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	69.8	70.1	70.1	70.1	70.5	70.5
N 10000	27.4	43.1	53.7	58.7	63.7	65.1	69.0	70.8	70.8	71.2	71.5	71.5	71.5	71.5	71.9	71.9
N 9000	27.4	43.1	53.7	58.7	63.7	65.1	69.0	70.8	70.8	71.2	71.5	71.5	71.5	71.5	71.9	71.9
N 8000	27.8	43.4	54.5	59.4	64.4	65.8	69.8	71.5	71.5	71.9	72.2	72.2	72.2	72.2	72.6	72.6
N 7000	28.1	43.8	54.8	59.8	64.8	66.2	70.1	71.9	71.9	72.2	72.6	72.6	72.6	72.6	73.0	73.0
N 6000	28.1	43.8	54.8	59.8	64.8	66.2	70.1	71.9	71.9	72.2	72.6	72.6	72.6	72.6	73.0	73.0
N 5000	28.1	44.1	55.2	61.1	66.1	66.6	70.5	72.2	72.2	72.6	73.0	73.0	73.0	73.0	73.3	73.3
N 4500	28.8	44.8	55.9	61.9	66.8	67.3	71.2	73.0	73.0	73.3	73.7	73.7	73.7	73.7	74.0	74.0
N 4000	28.8	44.8	56.2	61.2	66.2	67.6	71.5	73.3	73.3	73.7	74.0	74.0	74.0	74.0	74.4	74.4
N 3500	28.8	44.8	56.2	61.2	66.2	67.6	71.5	73.3	73.3	73.7	74.0	74.0	74.0	74.0	74.4	74.4
N 3000	30.3	46.3	57.7	62.6	67.6	69.0	73.0	74.7	74.7	75.1	75.4	75.4	75.4	75.4	75.8	75.8
N 2500	31.3	48.4	60.1	65.1	70.1	71.5	75.4	77.2	77.2	77.6	77.9	77.9	77.9	77.9	78.3	78.3
N 2000	33.1	51.3	63.0	68.0	73.0	74.4	78.3	80.1	80.1	80.4	80.8	80.8	80.8	80.8	81.1	81.1
N 1800	33.1	51.6	63.7	68.7	73.7	75.1	79.0	80.8	80.8	81.1	81.5	81.5	81.5	81.5	81.9	81.9
N 1500	35.6	55.2	68.0	73.3	78.7	80.1	84.3	86.1	86.1	86.5	86.8	86.8	86.8	86.8	87.2	87.2
N 1200	35.6	55.2	68.7	74.4	79.7	81.1	85.4	87.2	87.2	87.5	87.9	87.9	87.9	87.9	88.3	88.3
N 1000	35.9	55.9	69.4	75.1	80.8	82.9	88.3	90.4	90.4	90.8	91.1	91.1	91.1	91.1	91.5	91.5
N 900	35.9	55.9	69.4	75.1	81.5	83.6	89.3	91.8	91.8	92.2	92.5	92.5	92.5	92.5	92.9	92.9
N 800	35.9	55.9	69.8	75.4	81.9	84.0	90.4	92.9	92.9	93.2	93.6	93.6	93.6	93.6	94.0	94.0
N 700	35.9	55.9	69.8	75.4	81.9	84.3	90.8	94.0	94.0	94.3	94.7	94.7	94.7	94.7	95.0	95.0
N 600	35.9	55.9	69.8	75.4	81.9	84.3	91.1	94.7	94.7	95.0	95.7	95.7	95.7	95.7	96.1	96.1
N 500	35.9	55.9	69.8	75.4	81.9	84.7	91.5	95.4	95.4	95.7	96.8	96.8	96.8	96.8	97.2	97.2
N 400	35.9	55.9	69.8	75.4	81.9	84.7	91.5	95.7	95.7	96.4	97.5	97.5	97.5	97.5	97.9	97.9
N 300	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
N 200	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
N 100	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
N 0	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

13

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ 5/16	≥ ¼
NO CEILING	37.7	53.7	59.8	63.7	71.2	71.9	74.0	75.4	75.4	75.4	75.4	75.4	75.8	75.8	75.8
≥ 20000	39.2	56.6	63.7	67.6	75.1	75.8	78.3	80.1	80.1	80.1	80.1	80.1	80.4	80.4	80.4
≥ 18000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8
≥ 16000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8
≥ 14000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8
≥ 12000	39.9	56.4	65.5	70.1	77.6	78.7	81.1	82.9	82.9	82.9	82.9	82.9	83.3	83.3	83.3
≥ 10000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7
≥ 9000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7
≥ 8000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7
≥ 7000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1
≥ 6000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1
≥ 5000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1
≥ 4500	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1
≥ 4000	40.6	60.5	68.0	72.6	80.4	81.5	84.0	85.8	85.8	85.8	85.8	85.8	86.1	86.1	86.1
≥ 3500	41.3	61.2	68.7	73.3	81.1	82.2	84.7	86.5	86.5	86.5	86.5	86.5	86.8	86.8	86.8
≥ 3000	42.7	62.6	70.1	74.7	82.6	83.6	86.1	87.9	87.9	87.9	87.9	87.9	88.3	88.3	88.3
≥ 2500	42.7	62.6	70.1	74.7	82.6	83.6	86.1	87.9	87.9	87.9	87.9	87.9	88.3	88.3	88.3
≥ 2000	43.1	63.4	71.2	75.8	83.6	84.7	87.2	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.3
≥ 1800	43.1	63.4	71.2	75.8	83.6	84.7	87.2	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.3
≥ 1500	44.1	65.1	73.0	77.6	85.4	86.5	89.0	90.8	90.8	90.8	90.8	90.8	91.1	91.1	91.1
≥ 1200	44.1	65.1	73.3	78.3	86.1	87.2	89.7	91.5	91.5	91.5	91.5	91.5	91.8	91.8	91.8
≥ 1000	44.4	66.2	75.1	80.1	87.9	89.0	91.5	93.6	93.6	93.6	93.6	93.6	94.0	94.0	94.0
≥ 900	44.8	66.2	75.1	80.1	87.9	89.0	91.5	93.6	93.6	93.6	93.6	93.6	94.0	94.0	94.0
≥ 800	44.8	66.2	75.4	80.4	88.3	89.3	91.8	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7
≥ 700	44.8	66.2	75.4	80.4	88.3	89.3	92.2	95.0	95.0	95.0	95.0	95.0	95.4	95.4	95.4
≥ 600	44.8	66.2	75.4	80.4	88.3	89.3	92.9	96.8	96.8	96.8	96.8	96.8	97.2	97.2	97.2
≥ 500	44.8	66.6	75.8	80.8	88.6	89.7	93.6	97.5	97.5	97.5	97.5	97.5	97.9	97.9	97.9
≥ 400	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.2	98.2	98.2
≥ 300	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.6	98.6	98.6
≥ 200	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.6	98.6	98.6
≥ 100	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.6	98.6	98.6
≥ 0	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-87

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	39.6	57.0	65.3	67.0	74.7	75.9	77.6	78.4	78.4	78.4	78.4	78.4	78.4	78.8	78.8
≥ 20000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5
IV 18000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5
IV 16000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5
IV 14000	43.3	63.7	70.0	75.1	80.4	82.0	83.7	84.9	84.9	84.9	84.9	84.9	85.3	85.3	85.3
IV 12000	43.3	64.1	71.1	75.5	81.2	82.9	84.5	85.7	85.7	85.7	85.7	85.7	86.1	86.1	86.1
IV 10000	43.7	64.5	72.2	76.7	82.5	84.1	85.7	86.9	86.9	86.9	86.9	86.9	87.4	87.4	87.4
IV 9000	43.7	64.5	72.2	76.7	82.5	84.1	85.7	86.9	86.9	86.9	86.9	86.9	87.4	87.4	87.4
IV 8000	44.5	65.3	73.1	77.0	83.3	84.9	86.5	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2
IV 7000	44.5	65.3	73.1	77.0	83.3	84.9	86.5	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2
IV 6000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6
IV 5000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6
IV 4500	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6
IV 4000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6
IV 3500	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6
IV 3000	45.7	66.5	74.3	78.8	84.5	86.5	88.2	89.4	89.4	89.4	89.4	89.4	89.8	89.8	89.8
IV 2500	46.1	67.4	75.1	79.0	85.3	87.4	89.0	90.2	90.2	90.2	90.2	90.2	90.6	90.6	90.6
IV 2000	47.8	69.4	77.1	81.6	87.4	89.4	91.1	92.2	92.2	92.2	92.2	92.2	92.7	92.7	92.7
IV 1800	48.2	69.8	77.6	82.0	87.8	89.8	91.4	92.7	92.7	92.7	92.7	92.7	93.1	93.1	93.1
IV 1500	48.8	70.4	79.2	83.7	89.4	91.4	93.1	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7
IV 1200	49.4	71.5	81.2	85.7	91.4	93.5	95.1	96.3	96.3	96.3	96.3	96.3	96.7	96.7	96.7
IV 1000	49.4	71.5	81.6	86.1	92.7	94.7	96.3	97.6	97.6	97.6	97.6	97.6	98.0	98.0	98.0
IV 900	49.4	71.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4
IV 800	49.4	71.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4
IV 700	49.4	71.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4
IV 600	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8
IV 500	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 400	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	99.6	99.6	99.6
IV 300	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	99.6	99.6	99.6
IV 200	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	100.0	100.0	100.0
IV 100	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	100.0	100.0	100.0
IV 0	49.4	71.5	81.6	86.1	93.1	95.1	97.1	98.8	98.8	98.8	98.8	98.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

245

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	25.7	56.2	63.7	66.8	70.4	70.8	71.2	71.7	72.1	72.6	72.6	72.6	73.0	73.0	73.0	73.0
≥ 20000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
≥ 18000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
≥ 16000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
≥ 14000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
≥ 12000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
≥ 10000	27.1	60.6	69.5	73.0	76.6	77.0	77.4	77.9	78.3	78.8	78.8	78.8	79.2	79.2	79.2	79.2
≥ 9000	27.1	60.6	69.5	73.0	76.6	77.0	77.4	77.9	78.3	78.8	78.8	78.8	79.2	79.2	79.2	79.2
≥ 8000	27.0	61.1	69.9	73.5	77.0	77.4	77.9	78.3	78.8	79.2	79.2	79.2	79.7	79.7	79.7	79.7
≥ 7000	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 6000	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 5000	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 4500	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 4000	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 3500	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
≥ 3000	28.8	63.7	72.6	76.1	79.7	80.1	80.5	81.0	81.4	81.9	81.9	81.9	82.3	82.3	82.3	82.3
≥ 2500	29.7	65.0	73.9	77.4	81.0	81.4	81.9	82.3	82.7	83.2	83.2	83.2	83.6	83.6	83.6	83.6
≥ 2000	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 1800	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 1500	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 1200	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 1000	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 900	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 800	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 700	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 600	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 500	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 400	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 300	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 200	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 100	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
≥ 0	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8

TOTAL NUMBER OF OBSERVATIONS 226

DIRNAVOCEANMET SMSO

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73,77-82

YEARS

MONTH

72
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	29.9	43.3	46.1	47.5	49.7	49.7	50.4	50.4	50.4	51.1	51.8	51.8	51.8	51.8	51.8	51.8
IV 20000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 18000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 16000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 14000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 12000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 10000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 9000	29.9	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 8000	21.3	47.5	51.8	53.2	55.3	55.3	56.0	56.0	56.0	56.7	57.5	57.5	57.5	57.5	57.5	57.5
IV 7000	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 6000	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 5000	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 4500	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 4000	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 3500	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 3000	22.0	47.5	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 2500	23.4	52.5	56.7	58.2	60.3	60.3	61.0	61.0	61.0	61.7	62.4	62.4	62.4	62.4	62.4	62.4
IV 2000	26.2	56.7	61.0	62.4	64.5	64.5	65.3	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7
IV 1800	26.2	56.7	61.0	62.4	64.5	64.5	65.3	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7
IV 1500	27.0	61.0	65.3	67.4	69.5	69.5	70.2	70.2	70.2	70.9	71.6	71.6	71.6	71.6	71.6	71.6
IV 1200	27.7	64.5	69.5	72.3	74.5	74.5	75.2	75.2	75.2	75.9	76.6	76.6	76.6	76.6	76.6	76.6
IV 1000	28.4	68.8	77.3	81.0	85.1	85.1	86.5	86.5	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9
IV 900	28.4	69.5	78.0	82.3	85.8	85.8	87.2	87.2	87.2	87.9	88.6	88.6	88.6	88.6	88.6	88.6
IV 800	28.4	70.2	78.7	83.0	86.5	86.5	88.7	88.7	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1
IV 700	28.4	70.9	79.4	83.7	88.7	88.7	90.8	90.8	90.8	91.5	92.2	92.2	92.2	92.2	92.2	92.2
IV 600	28.4	70.9	79.4	83.7	88.7	88.7	92.2	93.6	93.6	94.3	95.0	95.0	95.0	95.0	95.0	95.0
IV 500	28.4	70.9	80.1	84.4	89.4	89.4	93.6	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5
IV 400	28.4	70.9	80.1	84.4	89.4	89.4	93.6	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5
IV 300	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.2	97.9	97.9	97.9	97.9	97.9	97.9
IV 200	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	28.3	46.6	53.0	58.6	61.2	62.1	64.1	65.0	65.1	65.5	65.7	65.7	66.1	66.2	66.1	66.7
≥ 20000	29.7	49.4	56.2	59.9	64.7	65.8	67.9	68.9	69.7	69.4	69.6	69.6	70.0	70.0	70.1	70.1
≥ 18000	29.7	49.5	56.3	60.1	64.8	65.9	68.0	69.0	69.1	69.5	69.7	69.7	70.1	70.1	70.2	70.3
≥ 16000	29.7	49.5	56.3	60.1	64.8	65.9	68.0	69.0	69.1	69.5	69.7	69.7	70.1	70.1	70.2	70.3
≥ 14000	29.7	49.5	56.5	60.2	65.0	66.1	68.1	69.2	69.2	69.7	69.9	69.9	70.3	70.3	70.3	70.4
≥ 12000	29.9	50.1	57.1	60.9	65.7	66.9	69.0	70.1	70.1	70.6	70.8	70.8	71.2	71.2	71.2	71.3
≥ 10000	30.2	50.7	58.0	61.9	66.9	68.1	70.2	71.2	71.3	71.7	71.9	71.9	72.3	72.3	72.4	72.5
≥ 9000	30.2	50.7	58.0	61.9	66.9	68.1	70.2	71.2	71.3	71.7	71.9	71.9	72.3	72.3	72.4	72.5
≥ 8000	30.5	51.3	58.7	62.6	67.6	68.8	70.9	71.9	72.0	72.4	72.6	72.6	73.0	73.0	73.1	73.2
≥ 7000	30.9	51.9	59.3	63.2	68.2	69.4	71.5	72.6	72.6	73.0	73.2	73.2	73.7	73.7	73.7	73.8
≥ 6000	31.0	52.1	59.5	63.3	68.3	69.5	71.7	72.7	72.8	73.2	73.4	73.4	73.8	73.8	73.9	73.9
≥ 5000	31.3	52.1	59.5	63.5	68.5	69.7	71.9	72.9	73.0	73.4	73.6	73.6	74.0	74.0	74.1	74.1
≥ 4500	31.2	52.3	59.7	63.7	68.7	69.9	72.1	73.1	73.2	73.6	73.8	73.8	74.2	74.2	74.3	74.3
≥ 4000	31.2	52.6	60.0	63.9	69.7	70.2	72.3	73.4	73.5	73.9	74.1	74.1	74.5	74.5	74.6	74.6
≥ 3500	31.4	52.8	60.2	64.1	69.2	70.4	72.6	73.6	73.7	74.1	74.3	74.3	74.7	74.7	74.8	74.8
≥ 3000	32.4	53.9	61.5	65.4	70.4	71.7	73.8	74.8	74.9	75.3	75.5	75.5	75.9	75.9	76.0	76.1
≥ 2500	33.5	55.7	63.4	67.4	72.4	73.7	75.8	76.8	76.9	77.3	77.5	77.5	77.9	77.9	78.0	78.1
≥ 2000	35.2	56.5	66.3	70.3	75.3	76.6	78.8	79.8	79.9	80.3	80.5	80.5	80.9	80.9	81.0	81.0
≥ 1800	35.3	56.9	66.9	70.9	75.9	77.2	79.4	80.4	80.5	80.9	81.1	81.1	81.5	81.5	81.6	81.7
≥ 1500	36.6	61.5	70.0	74.2	79.4	80.6	82.9	84.0	84.1	84.5	84.7	84.7	85.1	85.1	85.2	85.2
≥ 1200	37.0	62.6	71.5	75.9	81.2	82.5	84.8	85.9	85.9	86.5	86.7	86.7	87.1	87.1	87.2	87.2
≥ 1000	37.3	63.7	73.5	78.0	84.1	85.7	88.5	89.8	89.9	90.6	90.8	90.8	91.2	91.2	91.3	91.4
≥ 900	37.4	63.9	73.7	78.3	84.8	86.3	89.2	90.6	90.6	91.4	91.6	91.6	92.0	92.0	92.1	92.1
≥ 800	37.4	63.9	73.9	78.5	85.1	86.6	89.1	92.1	92.1	93.0	93.2	93.2	93.8	93.8	93.9	94.0
≥ 700	37.4	64.0	74.0	78.6	85.5	87.0	90.6	92.8	92.8	93.8	94.0	94.0	94.7	94.7	94.8	94.9
≥ 600	37.4	64.0	74.0	78.6	85.5	87.1	91.1	93.7	93.7	94.7	95.0	95.0	95.7	95.7	95.9	95.9
≥ 500	37.4	64.1	74.1	78.8	85.7	87.3	91.5	94.2	94.3	95.4	95.8	95.8	96.6	96.6	96.7	96.8
≥ 400	37.4	64.1	74.1	78.8	85.7	87.3	91.5	94.3	94.4	95.7	96.1	96.1	97.0	97.0	97.2	97.2
≥ 300	37.4	64.1	74.1	78.8	85.7	87.3	91.7	94.6	94.7	96.1	96.8	96.8	97.7	97.9	98.1	98.3
≥ 200	37.4	64.1	74.1	78.8	85.7	87.3	91.7	94.6	94.7	96.2	97.0	97.0	98.2	98.5	99.0	99.2
≥ 100	37.4	64.1	74.2	78.8	85.7	87.4	91.7	94.7	94.8	96.3	97.0	97.0	98.3	98.6	99.4	99.7
≥ 0	37.4	64.1	74.2	78.8	85.7	87.4	91.7	94.7	94.8	96.3	97.0	97.0	98.3	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

1452

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 20000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 18000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 16000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 14000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 12000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 10000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 9000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IN 8000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 7000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 6000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 5000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 4500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 4000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 3500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 3000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 2000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1800	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1200	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 1000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 900	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 800	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 700	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 600	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 400	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 300	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 200	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 100	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IN 0	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

5

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION ASHEVILLE, NORTH CAROLINA STATION NAME ASHEVILLE YEARS 1951-1952 NOV NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 11 5 1

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 20000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 18000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 16000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 14000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 12000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 10000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 9000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 8000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 7000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 6000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 5000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 4500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 4000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 2500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 2000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1800	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1200	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 900	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 800	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 700	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 600	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 400	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 300	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 200	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 100	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 0	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3

TOTAL NUMBER OF OBSERVATIONS 11 5 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

NOV

MONTH

7

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.4	56.2	67.6	63.1	65.1	65.5	66.3	66.7	66.7	68.3	68.3	68.3	69.1	69.1	69.5	69.5
≥ 20000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 18000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 16000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 14000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 12000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 10000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 9000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 8000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 7000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 6000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 5000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 4500	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 4000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 3500	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 3000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 2500	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 2000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1800	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1500	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1200	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1000	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 900	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 800	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 700	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 600	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 500	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 400	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 300	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 200	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 100	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 0	45.1	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1

TOTAL NUMBER OF OBSERVATIONS

249

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NGV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)11
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.5	61.0	65.5	67.8	71.5	72.5	73.9	74.2	74.2	74.2	74.6	74.6	74.6	74.6	74.6	74.4
≥ 20000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IV 18000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IV 16000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IV 14000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IV 12000	48.1	64.0	68.9	71.2	75.1	75.8	78.0	78.4	78.4	78.8	79.2	79.2	79.2	79.2	79.2	79.2
IV 10000	48.1	64.8	69.7	72.0	75.9	76.5	78.8	79.2	79.2	79.6	79.9	79.9	79.9	79.9	79.9	79.9
IV 9000	48.1	64.8	69.7	72.0	75.8	76.5	78.8	79.2	79.2	79.6	79.9	79.9	79.9	79.9	79.9	79.9
IV 8000	48.1	64.8	70.1	72.4	76.1	76.9	79.2	79.6	79.6	79.9	80.3	80.3	80.3	80.3	80.3	80.3
IV 7000	48.5	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IV 6000	48.5	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IV 5000	48.5	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IV 4500	48.9	65.5	70.8	73.1	76.9	77.7	79.9	80.3	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.1
IV 4000	48.9	65.5	70.8	73.1	76.9	77.7	79.9	80.3	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.1
IV 3500	48.9	65.5	71.2	73.4	77.7	78.4	80.7	81.1	81.1	81.4	81.8	81.8	81.8	81.8	81.8	81.8
IV 3000	48.9	67.1	72.4	75.4	79.2	79.9	82.2	82.6	82.6	83.0	83.3	83.3	83.3	83.3	83.3	83.3
IV 2500	51.2	69.3	74.6	77.7	81.4	82.2	84.5	84.9	84.9	85.2	85.6	85.6	85.6	85.6	85.6	85.6
IV 2000	52.7	71.8	76.5	79.9	83.7	84.9	87.1	87.5	87.5	87.9	88.3	88.3	88.3	88.3	88.3	88.3
IV 1800	53.0	71.2	76.9	80.3	84.1	85.2	87.5	87.9	87.9	88.3	88.6	88.6	88.6	88.6	88.6	88.6
IV 1500	54.6	73.1	76.8	82.2	86.4	87.5	90.2	90.5	90.5	91.3	91.7	91.7	91.7	91.7	91.7	91.7
IV 1200	54.6	73.9	79.6	83.7	87.9	89.0	92.1	92.4	92.4	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 1000	54.6	74.2	81.3	84.5	89.4	90.5	94.3	94.7	94.7	95.5	95.8	95.8	95.8	95.8	95.8	95.8
IV 900	54.6	74.2	81.3	84.5	89.4	90.5	94.3	94.7	94.7	95.5	95.8	95.8	95.8	95.8	95.8	95.8
IV 800	54.6	74.2	81.3	84.5	89.4	90.5	94.3	95.1	95.1	95.8	96.2	96.2	96.2	96.2	96.2	96.2
IV 700	54.6	74.2	81.3	84.5	89.4	90.5	94.3	95.8	95.8	96.6	97.0	97.0	97.0	97.0	97.0	97.0
IV 600	54.6	74.2	81.3	84.5	89.4	90.5	94.3	96.2	96.2	97.0	97.4	97.4	97.4	97.4	97.4	97.4
IV 500	54.6	74.2	81.3	84.5	89.4	90.5	94.3	97.0	97.0	97.7	98.1	98.1	98.1	98.1	98.1	98.1
IV 400	54.6	74.2	81.1	85.2	90.2	91.3	95.1	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
IV 300	54.6	74.2	81.1	85.2	90.2	91.3	95.1	97.4	97.4	98.5	98.9	98.9	98.9	99.2	99.2	99.2
IV 200	54.6	74.2	81.1	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6
IV 100	54.6	74.2	81.1	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6
IV 0	54.6	74.2	81.1	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.5	62.1	65.9	68.6	71.6	72.4	73.9	75.4	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1
≥ 20000	51.7	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
≥ 18000	51.9	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
≥ 16000	51.9	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
≥ 14000	52.7	68.6	72.4	75.8	79.2	79.9	81.4	83.0	83.0	83.3	83.7	83.7	83.7	83.7	83.7	83.7
≥ 12000	53.1	68.9	73.1	76.5	79.9	80.7	82.2	83.7	83.7	84.1	84.5	84.5	84.5	84.5	84.5	84.5
≥ 10000	53.8	70.1	74.2	77.7	81.1	81.8	83.3	84.9	84.9	85.6	86.0	86.0	86.0	86.0	86.0	86.0
≥ 9000	53.8	70.1	74.2	77.7	81.1	81.8	83.3	84.9	84.9	85.6	86.0	86.0	86.0	86.0	86.0	86.0
≥ 8000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
≥ 7000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
≥ 6000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
≥ 5000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
≥ 4500	55.3	71.6	75.8	79.2	82.6	83.3	84.9	86.4	86.4	87.1	87.5	87.5	87.5	87.5	87.5	87.5
≥ 4000	55.7	72.0	76.1	79.6	83.1	83.7	85.2	86.7	86.7	87.5	87.9	87.9	87.9	87.9	87.9	87.9
≥ 3500	56.8	73.1	77.3	80.7	84.1	84.9	86.4	87.9	87.9	88.6	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	57.2	73.5	77.7	81.1	84.5	85.2	86.7	88.3	88.3	89.0	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	58.7	75.4	79.6	83.0	86.4	87.1	88.6	90.2	90.2	90.9	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	60.7	77.3	81.4	85.2	88.6	89.4	90.9	92.4	92.4	93.2	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800	60.6	77.7	81.8	85.6	89.4	90.2	91.7	93.2	93.2	93.9	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1500	61.0	78.8	83.3	87.1	91.3	92.1	93.6	95.1	95.1	95.8	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1200	61.0	78.8	83.3	87.1	91.7	92.4	94.3	95.8	95.8	96.6	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1000	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 900	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 800	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
≥ 700	61.0	79.9	84.9	88.6	93.2	94.3	96.2	98.1	98.1	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	61.0	79.9	84.9	88.6	93.2	94.3	96.2	98.1	98.1	98.9	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
≥ 200	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.6	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	≥ 5/16	¼	≥ 0
NO CEILING	51.4	65.9	73.5	74.6	75.8	76.9	78.4	78.8	78.8	77.2	79.6	79.6	79.9	79.9	79.9
≥ 20000	56.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4
≥ 18000	55.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4
≥ 16000	56.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4
≥ 14000	56.8	72.4	80.7	81.8	83.0	84.1	85.6	86.0	86.0	86.4	86.7	86.7	87.1	87.1	87.1
≥ 12000	56.8	73.1	81.8	83.1	84.1	85.2	86.7	87.1	87.1	87.5	87.7	87.9	88.3	88.3	88.3
≥ 10000	57.6	74.2	83.0	84.1	85.2	86.4	87.9	88.3	88.3	88.6	89.0	89.0	89.4	89.4	89.4
≥ 9000	57.6	74.2	83.0	84.1	85.2	86.4	87.9	88.3	88.3	88.6	89.0	89.0	89.4	89.4	89.4
≥ 8000	59.0	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8
≥ 7000	59.0	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8
≥ 6000	59.0	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8
≥ 5000	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9
≥ 4500	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9
≥ 4000	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9
≥ 3500	57.5	76.1	84.9	86.0	87.1	88.3	89.8	90.2	90.2	90.5	90.9	90.9	91.3	91.3	91.3
≥ 3000	59.5	76.1	84.9	86.0	87.1	88.3	89.8	90.2	90.2	90.5	90.9	90.9	91.3	91.3	91.3
≥ 2500	59.9	76.5	85.2	86.4	87.5	88.6	90.2	90.5	90.5	90.9	91.3	91.3	91.7	91.7	91.7
≥ 2000	61.4	78.4	87.1	88.3	89.4	90.5	92.1	92.4	92.4	92.8	93.2	93.2	93.6	93.6	93.6
≥ 1800	61.4	78.4	87.1	88.3	89.4	90.5	92.1	92.4	92.4	92.8	93.2	93.2	93.6	93.6	93.6
≥ 1500	62.1	79.6	88.6	89.8	91.3	92.4	93.9	94.3	94.3	94.7	95.1	95.1	95.5	95.5	95.5
≥ 1200	62.5	79.9	89.8	90.9	92.4	93.9	95.1	95.5	95.5	95.8	96.2	96.2	96.6	96.6	96.6
≥ 1000	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 900	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 800	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 700	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 600	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 500	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 400	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 300	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 200	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 100	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9
≥ 0	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	37.6	61.6	64.4	65.7	69.1	70.4	70.8	71.3	71.3	71.8	72.2	72.2	72.2	72.2	72.7	73.2
≥ 20000	31.0	63.4	66.2	67.6	70.8	72.2	72.7	73.2	73.2	73.6	74.1	74.1	74.1	74.1	74.5	75.0
≥ 18000	31.0	63.4	66.2	67.6	70.8	72.2	72.7	73.2	73.2	73.6	74.1	74.1	74.1	74.1	74.5	75.0
≥ 16000	31.5	63.9	66.7	68.1	71.3	72.7	73.2	73.6	73.6	74.1	74.5	74.5	74.5	74.5	75.0	75.5
≥ 14000	31.9	65.3	68.1	69.4	72.7	74.1	74.5	75.0	75.0	75.5	75.9	75.9	75.9	75.9	76.4	76.9
≥ 12000	31.9	65.7	68.5	70.4	73.6	75.0	75.5	75.9	75.9	76.4	76.7	76.9	76.9	76.9	77.3	77.8
≥ 10000	31.9	66.7	69.4	71.3	74.5	75.9	76.4	76.9	76.9	77.3	77.8	77.8	77.8	77.8	78.2	78.7
≥ 9000	31.9	66.7	69.4	71.3	74.5	75.9	76.4	76.9	76.9	77.3	77.8	77.8	77.8	77.8	78.2	78.7
≥ 8000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	78.7	79.2
≥ 7000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	78.7	79.2
≥ 6000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	78.7	79.2
≥ 5000	33.8	66.5	71.3	73.2	76.4	77.8	78.2	78.7	78.7	79.2	79.6	79.6	79.6	79.6	80.1	80.6
≥ 4500	33.8	69.0	71.8	73.6	76.9	78.2	78.7	79.2	79.2	79.6	80.1	80.1	80.1	80.1	80.6	81.0
≥ 4000	33.8	69.0	71.8	73.6	76.9	78.2	78.7	79.2	79.2	79.6	80.1	80.1	80.1	80.1	80.6	81.0
≥ 3500	33.8	69.4	72.2	74.1	77.3	78.7	79.2	79.6	79.6	80.1	80.6	80.6	80.6	80.6	81.0	81.5
≥ 3000	34.3	69.9	72.7	74.5	77.8	79.2	79.6	80.1	80.1	80.6	81.0	81.0	81.0	81.0	81.5	81.9
≥ 2500	35.7	72.2	75.7	76.9	80.1	81.5	81.9	82.4	82.4	82.9	83.3	83.3	83.3	83.3	83.8	84.3
≥ 2000	36.6	75.0	77.8	79.6	82.9	84.3	84.7	85.2	85.2	85.7	86.1	86.1	86.1	86.1	86.6	87.0
≥ 1800	36.6	75.0	77.8	79.6	82.9	84.3	84.7	85.2	85.2	85.7	86.1	86.1	86.1	86.1	86.6	87.0
≥ 1500	37.7	75.9	80.6	82.9	86.1	87.5	88.0	88.4	88.4	88.9	89.4	89.4	89.4	89.4	89.8	90.3
≥ 1200	37.7	77.8	81.5	84.3	87.5	88.9	89.4	89.8	89.8	90.3	90.7	90.7	90.7	90.7	91.2	91.7
≥ 1000	37.5	79.2	83.3	86.1	90.3	91.7	92.1	92.6	92.6	93.1	93.5	93.5	93.5	93.5	94.0	94.4
≥ 900	37.5	79.2	83.3	86.1	90.3	91.7	92.1	92.6	92.6	93.1	93.5	93.5	93.5	93.5	94.0	94.4
≥ 800	37.5	79.6	84.3	87.0	91.2	92.6	93.1	93.5	93.5	94.0	94.4	94.4	94.4	94.4	94.9	95.4
≥ 700	37.5	79.6	84.3	87.5	91.7	93.1	93.5	94.0	94.0	94.4	94.9	94.9	94.9	94.9	95.4	95.8
≥ 600	37.5	79.6	84.3	87.5	91.7	93.1	93.5	94.0	94.0	94.4	94.9	94.9	94.9	94.9	95.4	95.8
≥ 500	37.5	79.6	84.3	87.5	91.7	93.5	94.0	94.4	94.4	94.9	95.4	95.4	95.4	95.4	95.8	96.3
≥ 400	37.5	79.6	84.3	87.5	91.7	93.5	94.4	94.9	94.9	95.4	95.8	95.8	95.8	95.8	96.3	96.8
≥ 300	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	96.8	97.2	97.7
≥ 200	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	96.8	97.2	97.7
≥ 100	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	97.2	97.2	98.6
≥ 0	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	97.2	97.2	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 216

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73.77-82

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

2

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	27.6	53.2	59.6	62.4	65.3	65.3	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.8	68.8	69.5
≥ 20000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 18000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 16000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 14000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 12000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 10000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 9000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 8000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 7000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 6000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 5000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 4500	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 4000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 3500	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 3000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 2500	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 2000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 1800	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 1500	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 1200	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 1000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 900	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 800	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 700	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 600	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 500	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 400	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 300	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 200	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 100	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 0	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3

TOTAL NUMBER OF OBSERVATIONS

101

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	42.4	65.8	65.6	67.0	70.3	71.0	72.4	73.0	73.7	73.5	73.7	73.7	74.0	74.0	74.2	74.3
≥ 20000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
≥ 18000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
≥ 16000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
≥ 14000	45.0	65.2	70.2	72.4	75.1	75.9	77.4	78.3	78.3	78.6	78.9	78.9	79.1	79.1	79.4	79.4
≥ 12000	45.1	65.7	71.0	73.3	76.0	76.8	78.4	79.0	79.0	79.6	79.8	79.8	80.1	80.1	80.3	80.4
≥ 10000	45.4	66.6	71.8	74.2	76.9	77.7	79.4	79.9	79.9	80.6	80.8	80.8	81.1	81.1	81.3	81.4
≥ 9000	45.4	66.6	71.8	74.2	76.9	77.7	79.4	79.9	79.9	80.6	80.8	80.8	81.1	81.1	81.3	81.4
≥ 8000	45.7	67.0	72.3	74.7	77.4	78.2	79.8	80.4	80.4	81.1	81.3	81.3	81.6	81.6	81.8	81.9
≥ 7000	45.8	67.1	72.4	74.8	77.5	78.3	79.9	80.5	80.5	81.1	81.4	81.4	81.7	81.7	81.9	82.0
≥ 6000	45.8	67.1	72.4	74.8	77.5	78.3	79.9	80.5	80.5	81.1	81.4	81.4	81.7	81.7	81.9	82.0
≥ 5000	46.2	67.5	72.8	75.2	77.9	78.7	80.3	80.9	80.9	81.6	81.8	81.8	82.1	82.1	82.3	82.4
≥ 4500	46.4	67.9	73.2	75.6	78.3	79.1	80.7	81.3	81.3	81.9	82.2	82.2	82.5	82.5	82.7	82.8
≥ 4000	46.6	68.1	73.4	75.8	78.5	79.3	80.9	81.5	81.5	82.1	82.4	82.4	82.7	82.7	82.9	83.0
≥ 3500	47.1	68.6	74.0	76.4	79.1	79.9	81.6	82.1	82.1	82.8	83.1	83.1	83.3	83.3	83.5	83.6
≥ 3000	47.6	69.3	74.7	77.2	79.9	80.7	82.3	82.9	82.9	83.5	83.8	83.8	84.1	84.1	84.3	84.4
≥ 2500	49.0	71.0	76.4	78.9	81.6	82.4	84.0	84.6	84.6	85.2	85.5	85.5	85.8	85.8	86.0	86.1
≥ 2000	50.2	73.0	78.5	81.2	84.0	84.8	86.4	87.0	87.0	87.7	87.9	87.9	88.2	88.2	88.4	88.5
≥ 1800	50.3	73.2	78.6	81.3	84.2	85.0	86.7	87.2	87.2	87.9	88.2	88.2	88.4	88.4	88.6	88.7
≥ 1500	51.1	75.0	81.0	83.6	86.8	87.7	89.5	90.1	90.1	90.8	91.1	91.1	91.3	91.3	91.6	91.6
≥ 1200	51.2	75.7	81.8	84.9	88.0	89.0	90.9	91.6	91.6	92.3	92.6	92.6	92.9	92.9	93.1	93.2
≥ 1000	51.5	76.7	83.1	86.4	90.1	91.1	93.3	94.2	94.2	95.0	95.2	95.2	95.5	95.5	95.7	95.8
≥ 900	51.5	76.7	83.1	86.4	90.1	91.1	93.3	94.2	94.2	95.0	95.2	95.2	95.5	95.5	95.7	95.8
≥ 800	51.5	76.8	83.3	86.6	90.3	91.5	93.7	94.7	94.7	95.5	95.7	95.7	96.0	96.0	96.2	96.3
≥ 700	51.5	76.9	83.4	86.8	90.5	91.8	94.0	95.1	95.1	95.9	96.2	96.2	96.5	96.5	96.7	96.8
≥ 600	51.5	76.9	83.5	86.9	90.6	91.8	94.0	95.4	95.4	96.2	96.5	96.5	96.7	96.7	97.0	97.1
≥ 500	51.5	76.9	83.5	86.9	90.6	91.9	94.3	95.8	95.8	96.6	96.9	96.9	97.2	97.2	97.4	97.5
≥ 400	51.5	76.9	83.5	86.9	90.6	92.0	94.4	96.0	96.0	96.8	97.2	97.2	97.5	97.5	97.7	97.9
≥ 300	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.2	96.2	97.2	97.6	97.6	98.1	98.1	98.3	98.4
≥ 200	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.3	98.3	98.6	98.7
≥ 100	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.4	98.4	98.9	99.0
≥ 0	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.4	98.4	98.9	99.0

TOTAL NUMBER OF OBSERVATIONS

1409

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
7 15

STATION NAME
IMPERIAL BEACH, CALIFORNIA

73

YEARS

MONTH
DEC

34

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 20000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 18000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 16000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 14000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 12000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 10000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 9000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 8000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 7000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 6000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 5000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4500		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3500		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2500		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1800		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1500		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1200		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1000		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 900		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 800		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 700		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 600		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 500		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 400		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 300		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 200		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 100		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 0		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

72

YEARS

DLC

MONTH

04
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

DEC

MONTH

27

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.2	54.9	62.7	63.6	65.5	65.5	65.9	66.3	66.3	67.4	67.4	67.4	68.2	68.2	68.2	69.4
≥ 20000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 18000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 16000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 14000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 12000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 10000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IV 9000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IV 8000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 7000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 6000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 5000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 4500	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 4000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 3500	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 3000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 2500	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 2000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 1800	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 1500	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 1200	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 1000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 900	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 800	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 700	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 600	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 500	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 400	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 300	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 200	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 100	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 0	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4

TOTAL NUMBER OF OBSERVATIONS

258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)7
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.2	53.9	62.7	63.6	65.5	65.5	65.9	66.3	66.3	67.4	67.4	67.4	68.2	68.2	68.2	69.4
≥ 20000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IVV 18000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
16000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IVV 14000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
12000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IVV 10000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
9000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IVV 8000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
7000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IVV 6000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
5000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IVV 4500	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
4000	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IVV 3500	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
3000	54.7	66.7	70.2	71.7	74.0	74.4	74.8	75.2	75.2	76.7	76.7	76.7	77.5	77.5	77.5	78.7
IVV 2500	55.4	67.4	71.9	72.5	75.2	75.6	76.0	76.4	76.4	77.9	77.9	77.9	78.7	78.7	78.7	79.8
2000	55.4	67.4	72.1	73.6	76.4	76.7	77.1	77.9	78.3	79.8	79.8	79.8	80.6	80.6	80.6	81.8
IVV 1800	56.2	68.2	72.5	74.0	76.7	77.1	77.9	78.3	78.3	79.8	79.8	79.8	80.6	80.6	80.6	81.8
1500	57.4	70.5	75.6	77.1	81.0	82.2	83.0	83.7	83.7	85.3	85.7	85.7	86.4	86.4	86.4	87.6
IVV 1200	57.8	71.3	76.7	78.3	82.6	83.7	84.9	85.7	85.7	87.6	88.0	88.0	88.8	88.8	88.8	89.9
1000	57.8	71.3	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
IVV 900	57.8	71.7	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
800	57.8	71.7	77.9	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
IVV 700	57.8	71.7	77.9	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
600	57.8	71.7	77.9	79.8	84.5	86.1	87.6	89.5	89.5	91.9	92.3	92.3	93.4	93.4	93.4	94.2
IVV 500	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
400	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IVV 300	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
200	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IVV 100	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
0	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4

TOTAL NUMBER OF OBSERVATIONS 258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

DLC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.3	57.8	65.7	66.6	68.7	69.4	70.9	70.9	70.9	72.4	72.4	72.4	72.4	72.4	72.8	72.8
≥ 20000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.0	78.4	78.4
IV 18000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.0	78.4	78.4
IV 16000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.0	78.4	78.4
IV 14000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.0	78.4	78.4
IV 12000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.0	78.4	78.4
IV 10000	49.1	63.4	71.3	73.1	75.4	76.1	78.7	78.7	78.7	80.2	80.2	80.2	80.2	80.2	80.6	80.6
IV 9000	49.1	63.4	71.3	73.1	75.4	76.1	78.7	78.7	78.7	80.2	80.2	80.2	80.2	80.2	80.6	80.6
IV 8000	49.1	63.4	71.3	73.1	75.4	76.1	78.7	78.7	78.7	80.2	80.2	80.2	80.2	80.2	80.6	80.6
IV 7000	49.1	63.4	71.3	73.1	75.4	76.1	78.7	78.7	78.7	80.2	80.2	80.2	80.2	80.2	80.6	80.6
IV 6000	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 5000	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 4500	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 4000	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 3500	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 3000	51.5	65.2	73.1	75.4	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.1	82.5	82.5
IV 2500	55.2	71.3	79.5	81.3	83.6	84.3	86.2	86.9	86.9	88.4	88.4	88.4	88.4	88.4	88.8	88.8
IV 2000	55.2	71.3	79.5	81.3	83.6	84.3	86.2	86.9	86.9	88.4	88.4	88.4	88.4	88.4	88.8	88.8
IV 1800	55.2	71.3	79.5	81.3	83.6	84.3	86.2	86.9	86.9	88.4	88.4	88.4	88.4	88.4	88.8	88.8
IV 1500	55.2	71.3	79.5	81.3	83.6	84.3	86.2	86.9	86.9	88.4	88.4	88.4	88.4	88.4	88.8	88.8
IV 1200	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 1000	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 900	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 800	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 700	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 600	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 500	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 400	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 300	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 200	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 100	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4
IV 0	57.1	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.0	91.0	91.0	91.0	91.0	91.4	91.4

TOTAL NUMBER OF OBSERVATIONS

258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-27

YEARS

DEC

MONTH

13

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	5.6	6.1	65.3	67.7	71.3	72.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	74.3
≥ 20000	5.6	67.2	72.4	75.0	78.4	79.1	81.7	81.3	81.3	81.3	81.3	81.3	81.3	81.7	81.7	82.1
IV 18000	5.6	67.2	72.4	75.0	78.4	79.1	81.7	81.3	81.3	81.3	81.3	81.3	81.3	81.7	81.7	82.1
IV 16000	5.6	67.2	72.4	75.0	78.4	79.1	81.7	81.3	81.3	81.3	81.3	81.3	81.3	81.7	81.7	82.1
IV 14000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 12000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 10000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 9000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 8000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 7000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 6000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 5000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 4500	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 4000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 3500	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 3000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 2500	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 2000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 1800	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 1500	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 1200	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 1000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 900	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 800	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 700	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 600	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 500	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 400	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 300	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 200	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 100	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 0	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5

TOTAL NUMBER OF OBSERVATIONS

268

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

13-81

D.L.C.

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	57.2	64.7	65.2	67.1	69.7	71.4	71.2	71.5	71.5	71.9	72.3	72.3	72.7	72.7	72.7	72.7
≥ 20000	57.3	64.3	74.5	76.4	79.8	81.5	82.4	82.4	82.4	82.8	83.2	83.2	83.5	83.5	83.5	83.5
IV 18000	57.3	64.3	74.5	76.4	79.8	81.5	82.4	82.4	82.4	82.8	83.2	83.2	83.5	83.5	83.5	83.5
IV 16000	57.3	64.3	74.5	76.4	79.8	81.5	82.4	82.4	82.4	82.8	83.2	83.2	83.5	83.5	83.5	83.5
IV 14000	57.7	64.7	75.3	77.2	80.5	81.3	82.8	83.2	83.2	83.5	83.5	83.5	84.3	84.3	84.3	84.3
IV 12000	58.8	71.2	76.8	78.7	82.1	82.8	84.3	85.0	85.0	85.4	85.4	85.4	86.1	86.1	86.1	86.1
IV 10000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 9000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 8000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 7000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 6000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 5000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 4500	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 4000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 3500	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 3000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 2500	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 2000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 1800	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 1500	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 1200	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 1000	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 900	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 800	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 700	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 600	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 500	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 400	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 300	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 200	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 100	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5
IV 0	58.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.5	86.5

TOTAL NUMBER OF OBSERVATIONS

67

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)34
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.7	57.1	61.8	64.2	68.4	68.4	68.9	69.8	69.8	70.8	70.8	70.3	71.7	71.7	71.7	72.2
≥ 20000	33.5	56.9	64.6	67.0	72.2	72.2	73.1	74.5	74.5	75.5	75.5	75.5	76.4	76.4	76.4	76.9
IV 18000	33.5	56.9	64.6	67.0	72.2	72.2	73.1	74.5	74.5	75.5	75.5	75.5	76.4	76.4	76.4	76.9
IV 16000	33.5	56.9	65.1	67.5	72.6	72.6	73.6	75.0	75.0	75.9	75.9	75.9	76.9	76.9	76.9	77.4
IV 14000	33.5	56.9	65.1	67.5	72.6	72.6	73.6	75.0	75.0	75.9	75.9	75.9	76.9	76.9	76.9	77.4
IV 12000	34.0	61.0	66.0	68.4	74.1	74.1	75.0	76.4	76.4	77.4	77.4	77.4	78.3	78.3	78.3	78.8
IV 10000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 9000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 8000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 7000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 6000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 5000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 4500	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IV 4000	34.4	61.0	67.1	69.3	75.0	75.9	76.9	78.3	78.3	79.3	79.3	79.3	80.2	80.2	80.2	80.7
IV 3500	35.4	62.7	67.9	70.3	75.9	75.9	76.9	78.3	78.3	79.3	79.3	79.3	80.2	80.2	80.2	80.7
IV 3000	36.3	63.7	68.9	71.2	76.9	76.9	77.8	79.3	79.3	80.2	80.2	80.2	81.1	81.1	81.1	81.6
IV 2500	37.3	64.6	69.8	72.2	77.8	77.8	78.8	80.2	80.2	81.1	81.1	81.1	82.1	82.1	82.1	82.6
IV 2000	37.7	67.5	72.6	75.0	80.7	80.7	81.6	83.0	83.0	84.0	84.0	84.0	84.9	84.9	84.9	85.4
IV 1800	37.7	67.5	72.6	75.0	80.7	80.7	81.6	83.0	83.0	84.0	84.0	84.0	84.9	84.9	84.9	85.4
IV 1500	37.2	71.2	76.4	78.8	84.4	84.4	85.4	86.8	86.8	87.7	87.7	87.7	88.7	88.7	88.7	89.2
IV 1200	39.6	73.1	78.3	80.7	86.3	86.3	87.3	88.7	88.7	89.6	89.6	89.6	90.6	90.6	90.6	91.1
IV 1000	40.1	74.1	81.2	82.6	88.2	88.2	89.2	90.6	90.6	91.5	91.5	91.5	92.5	92.5	92.5	92.9
IV 900	40.1	74.1	81.2	82.6	88.2	88.2	89.2	90.6	90.6	91.5	91.5	91.5	92.5	92.5	92.5	92.9
IV 800	40.6	75.0	81.6	84.0	89.6	89.6	90.6	92.5	92.5	93.4	93.4	93.4	94.3	94.3	94.3	94.8
IV 700	40.6	75.0	81.6	84.0	89.6	89.6	90.6	92.5	92.5	93.4	93.4	93.4	94.3	94.3	94.3	94.8
IV 600	41.1	75.5	82.1	84.4	90.1	90.1	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 500	41.1	75.5	82.1	84.4	90.1	90.1	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 400	41.1	75.5	82.1	84.4	90.1	90.1	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 300	41.0	75.4	82.0	84.3	90.0	90.0	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 200	41.0	75.4	82.0	84.3	90.0	90.0	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 100	41.0	75.4	82.0	84.3	90.0	90.0	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3
IV 0	41.0	75.4	82.0	84.3	90.0	90.0	91.0	92.9	92.9	93.9	93.9	93.9	94.8	94.8	94.8	95.3

TOTAL NUMBER OF OBSERVATIONS

412

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73, 77-87

DLC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

72

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	24.9	47.0	49.2	52.4	56.4	56.4	56.4	57.1	57.1	57.9	58.7	58.7	58.7	58.7	60.3	60.3
≥ 20000	25.4	50.8	52.4	56.4	60.3	60.3	61.1	61.9	61.9	64.3	65.1	65.1	65.1	65.1	66.7	66.7
≥ 18000	25.4	50.8	52.4	56.4	60.3	60.3	61.1	61.9	61.9	64.3	65.1	65.1	65.1	65.1	66.7	66.7
≥ 16000	25.4	50.8	52.4	57.1	61.1	61.1	61.9	62.7	62.7	65.1	65.9	65.9	65.9	65.9	67.5	67.5
≥ 14000	25.4	50.8	52.4	57.1	61.1	61.1	61.9	62.7	62.7	65.1	65.9	65.9	65.9	65.9	67.5	67.5
≥ 12000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
≥ 10000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
≥ 9000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
≥ 8000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 7000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 6000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 5000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 4500	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 4000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 3500	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 3000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
≥ 2500	29.6	56.7	61.3	65.1	69.8	69.8	70.6	71.4	71.4	73.8	74.6	74.6	74.6	74.6	76.2	76.2
≥ 2000	30.2	62.7	64.3	69.1	73.8	73.8	74.6	75.4	75.4	77.8	78.6	78.6	78.6	78.6	80.2	80.2
≥ 1800	30.2	62.7	64.3	69.1	73.8	73.8	74.6	75.4	75.4	77.8	78.6	78.6	78.6	78.6	80.2	80.2
≥ 1600	30.2	62.7	64.3	69.1	73.8	73.8	74.6	75.4	75.4	77.8	78.6	78.6	78.6	78.6	80.2	80.2
≥ 1500	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 1200	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 1000	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 900	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 800	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 700	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 600	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 500	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 400	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 300	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 200	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
≥ 100	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
0	31.8	69.8	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5

TOTAL NUMBER OF OBSERVATIONS

125

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.2	56.2	62.8	64.8	67.6	68.1	68.9	69.3	69.3	70.0	70.2	71.2	71.6	72.7	72.8	71.7
≥ 20000	47.4	63.1	68.1	71.3	73.5	74.0	75.3	75.8	75.8	76.8	76.9	76.9	77.3	77.4	77.5	78.0
≥ 18000	47.4	63.1	68.1	71.3	73.5	74.0	75.3	75.8	75.8	76.8	76.9	76.9	77.3	77.4	77.5	78.0
≥ 16000	47.4	63.1	68.2	71.5	73.7	74.2	75.5	76.0	76.0	77.0	77.1	77.1	77.5	77.6	77.8	78.2
≥ 14000	47.6	63.3	68.4	70.7	73.9	74.4	75.7	76.3	76.3	77.2	77.3	77.3	77.8	77.8	78.0	78.4
≥ 12000	48.2	64.3	69.4	71.8	75.2	75.7	77.0	77.7	77.7	78.7	78.8	78.8	79.2	79.3	79.5	79.9
≥ 10000	48.6	64.9	70.0	72.4	75.8	76.3	77.6	78.3	78.3	79.3	79.5	79.5	79.9	80.0	80.1	80.5
≥ 9000	48.8	65.1	70.3	72.6	76.2	76.5	77.8	78.5	78.5	79.5	79.7	79.7	80.1	80.2	80.3	80.7
≥ 8000	49.1	65.6	70.8	73.1	76.5	77.1	78.3	79.0	79.1	80.0	80.2	80.2	80.6	80.7	80.9	81.3
≥ 7000	49.2	65.6	70.8	73.1	76.5	77.1	78.3	79.0	79.2	80.0	80.2	80.2	80.6	80.7	80.9	81.3
≥ 6000	49.2	65.7	70.8	73.2	76.6	77.1	78.4	79.1	79.1	80.1	80.2	80.2	80.7	80.8	81.0	81.4
≥ 5000	49.4	66.1	71.1	73.5	76.9	77.4	78.7	79.4	79.4	80.4	80.5	80.5	81.0	81.1	81.2	81.7
≥ 4500	49.4	66.1	71.1	73.5	76.9	77.4	78.7	79.4	79.4	80.4	80.5	80.5	81.0	81.1	81.2	81.7
≥ 4000	49.8	66.3	71.5	73.8	77.3	77.8	79.0	79.7	79.7	80.7	80.9	80.9	81.3	81.5	81.6	82.0
≥ 3500	50.1	66.7	71.9	74.3	77.7	78.2	79.5	80.2	80.2	81.2	81.3	81.3	81.7	81.9	82.0	82.5
≥ 3000	51.4	68.2	73.5	75.8	79.2	79.7	81.0	81.7	81.7	82.7	82.9	82.9	83.3	83.5	83.6	84.0
≥ 2500	52.4	69.4	74.8	77.1	80.6	81.1	82.4	83.1	83.1	84.1	84.2	84.2	84.7	84.8	85.0	85.4
≥ 2000	53.1	71.1	76.8	79.1	82.6	83.1	84.5	85.2	85.2	86.2	86.3	86.3	86.7	86.9	87.0	87.5
≥ 1800	53.4	71.5	77.2	79.5	83.4	83.6	85.0	85.7	85.7	86.7	86.8	86.8	87.2	87.4	87.5	88.0
≥ 1500	54.6	74.2	80.2	82.6	86.4	87.1	88.5	89.2	89.2	90.2	90.4	90.4	90.9	91.0	91.2	91.7
≥ 1200	54.9	75.0	81.2	83.5	87.5	88.2	89.6	90.4	90.4	91.5	91.7	91.7	92.2	92.3	92.5	92.9
≥ 1000	55.4	75.6	82.3	84.7	89.0	89.7	91.2	92.1	92.1	93.2	93.4	93.4	93.9	94.0	94.2	94.7
≥ 900	55.6	76.1	82.5	84.9	89.2	89.9	91.4	92.2	92.2	93.4	93.6	93.6	94.0	94.2	94.4	94.8
≥ 800	55.6	76.3	83.0	85.4	89.7	90.4	91.9	92.9	92.9	94.3	94.5	94.5	94.9	95.1	95.3	95.7
≥ 700	55.6	76.3	83.0	85.4	89.7	90.4	91.9	92.9	92.9	94.4	94.6	94.6	95.0	95.2	95.4	95.8
≥ 600	55.7	76.3	83.0	85.5	89.7	90.5	92.1	93.2	93.2	94.7	94.9	94.9	95.4	95.5	95.7	96.2
≥ 500	55.7	76.4	83.2	85.7	90.2	90.9	92.7	94.2	94.2	95.8	96.0	96.0	96.5	96.7	96.9	97.3
≥ 400	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.3	94.3	95.9	96.2	96.2	96.7	96.8	97.0	97.4
≥ 300	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.3	94.3	96.0	96.2	96.2	96.8	96.9	97.3	97.7
≥ 200	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.1	97.2	97.7	98.3
≥ 100	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.2	97.4	98.0	99.0
≥ 0	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.2	97.4	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS

1402

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

ALL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	34.2	52.2	56.2	58.4	60.2	60.7	61.4	61.9	61.8	62.0	62.1	62.1	62.2	62.3	62.3	62.4
≥ 20000	35.6	54.6	59.1	61.3	63.2	63.7	64.5	64.9	64.9	65.2	65.3	65.3	65.4	65.4	65.5	65.6
≥ 18000	36.6	54.9	59.1	61.4	63.3	63.8	64.6	65.1	65.2	65.3	65.4	65.4	65.5	65.5	65.6	65.6
≥ 16000	36.6	54.9	59.2	61.4	63.3	63.8	64.7	65.2	65.3	65.3	65.4	65.4	65.5	65.6	65.6	65.7
≥ 14000	36.8	55.3	59.6	61.9	63.8	64.3	65.2	65.5	65.5	65.8	65.9	65.9	66.1	66.1	66.1	66.2
≥ 12000	37.2	55.9	60.3	62.6	64.6	65.1	66.0	66.4	66.4	66.7	66.9	66.8	66.9	66.9	67.0	67.0
≥ 10000	37.6	56.7	61.2	63.5	65.5	66.0	66.9	67.3	67.3	67.6	67.7	67.7	67.8	67.8	67.9	67.9
≥ 9000	37.7	56.7	61.2	63.5	65.5	66.0	66.9	67.3	67.3	67.6	67.7	67.7	67.8	67.9	67.9	68.0
≥ 8000	38.2	57.4	61.9	64.3	66.3	66.8	67.7	68.1	68.1	68.4	68.5	68.5	68.6	68.6	68.7	68.7
≥ 7000	38.3	57.7	62.2	64.5	66.5	67.0	67.9	68.3	68.3	68.6	68.7	68.7	68.8	68.9	68.9	69.0
≥ 6000	38.4	57.8	62.4	64.7	66.7	67.2	68.1	68.5	68.5	68.8	68.9	68.9	69.1	69.1	69.1	69.2
≥ 5000	38.8	58.3	62.8	65.1	67.1	67.7	68.6	69.0	69.0	69.3	69.4	69.4	69.5	69.5	69.6	69.6
≥ 4500	39.9	58.4	63.0	65.3	67.3	67.9	68.7	69.1	69.2	69.5	69.6	69.6	69.7	69.7	69.8	69.8
≥ 4000	39.5	58.1	63.7	66.0	68.1	68.6	69.5	69.9	69.9	70.2	70.3	70.3	70.4	70.4	70.5	70.6
≥ 3500	40.3	60.0	64.6	66.9	69.3	69.5	70.4	70.8	70.8	71.1	71.2	71.2	71.3	71.3	71.4	71.5
≥ 3000	41.5	61.6	66.2	68.9	70.6	71.1	72.0	72.4	72.4	72.7	72.8	72.8	73.0	73.0	73.0	73.1
≥ 2500	43.3	64.1	68.8	71.2	73.3	73.8	74.7	75.1	75.1	75.4	75.5	75.5	75.6	75.6	75.7	75.8
≥ 2000	45.3	67.0	71.8	74.2	76.3	76.8	77.7	78.2	78.2	78.5	78.6	78.6	78.7	78.7	78.8	78.9
≥ 1800	45.6	67.5	72.3	74.7	76.9	77.4	78.3	78.7	78.7	79.0	79.1	79.1	79.3	79.3	79.3	79.4
≥ 1500	47.6	71.4	76.7	79.3	81.6	82.2	83.1	83.6	83.6	83.9	84.1	84.1	84.1	84.2	84.2	84.3
≥ 1200	48.3	73.6	79.3	82.2	84.6	85.3	86.3	86.7	86.7	87.1	87.2	87.2	87.3	87.4	87.4	87.5
≥ 1000	48.9	75.0	82.6	86.0	89.0	89.8	90.9	91.4	91.4	91.8	92.0	92.0	92.1	92.1	92.2	92.2
≥ 900	49.1	76.3	83.1	86.5	89.6	90.5	91.7	92.2	92.2	92.6	92.7	92.7	92.9	92.9	92.9	93.0
≥ 800	49.1	76.7	83.7	87.4	90.9	92.0	93.4	94.1	94.1	94.5	94.7	94.7	94.8	94.8	94.9	95.0
≥ 700	49.1	76.9	84.1	87.9	91.6	92.8	94.4	95.1	95.1	95.6	95.7	95.7	95.9	95.9	96.0	96.0
≥ 600	49.1	76.9	84.2	88.1	92.0	93.3	95.0	95.8	95.8	96.4	96.5	96.5	96.7	96.7	96.8	96.8
≥ 500	49.1	77.0	84.3	88.3	92.4	93.8	95.7	96.7	96.7	97.3	97.5	97.5	97.7	97.7	97.8	97.9
≥ 400	49.1	77.1	84.4	88.5	92.6	94.0	96.0	97.1	97.1	97.8	98.0	98.0	98.2	98.2	98.3	98.4
≥ 300	49.1	77.1	84.4	88.5	92.6	94.1	96.1	97.3	97.4	98.1	98.4	98.4	98.7	98.7	98.9	99.0
≥ 200	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.4	98.2	98.6	98.6	99.0	99.1	99.3	99.4
≥ 100	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.5	98.3	98.6	98.6	99.1	99.2	99.5	99.7
≥ 0	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.5	98.3	98.6	98.6	99.1	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

17419

DIRNAVOCEANMET SMOS

SKY COVER

93115 IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	01				25.0						50.0	25.0	7.8	4
	04	40.0			20.0						40.0		4.2	5
	07	27.1			25.7						17.1	30.1	5.3	269
	10	31.3			20.4						25.0	23.2	5.2	284
	13	25.0			26.1						24.6	24.3	5.4	284
	16	27.1			23.9						26.4	22.5	5.3	280
	19	27.5			27.5						20.2	24.9	5.1	233
	22	29.2			20.8						24.5	25.5	5.4	176
TOTALS		25.9			23.7						28.5	21.9	5.5	1465

NAVWEASERVCOM

44

73-92

FEA

STATION

STATION NAME

PERIOD

MONTH

1
1
1

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
FEB	01													
	04	100.0											.0	1
	07	30.5			24.7						18.5	26.3	5.0	243
	10	28.4			25.3						22.2	24.1	5.2	261
	13	23.0			32.6						23.4	21.1	5.2	251
	16	23.4			29.3						23.0	24.2	5.4	256
	19	27.0			29.3						22.8	20.9	5.0	215
	22	28.4			29.5						18.9	23.2	4.9	95
TOTALS		37.2			24.4						18.4	20.0	4.4	1332

NAYWEASERVCOM

SKY COVER

93115 IMPERIAL BEACH, CALIFORNIA

73-82

MAR

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAR	01													
	04													
	07	31.3			16.0						22.2	30.5	5.5	275
	10	26.4			22.3						20.8	22.6	5.5	292
	13	27.4			29.5						26.7	16.4	4.9	202
	16	22.6			31.1						27.6	18.7	5.3	243
	19	30.2			26.2						22.2	21.4	4.9	248
	22	24.4			27.5						22.9	25.2	5.4	131
TOTALS		27.1			25.4						25.1	22.5	5.3	1521

NAVWEASERVCOM

SKY COVER

43115 IMPERIAL BEACH, CALIFORNIA

73-42

APR

STATION

STATION NAME

PERIOD

MONTANA

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JPR	01	33.3			66.7								2.0	3
	04				100.0								3.0	1
	07	29.3			14.4						19.3	37.0	5.9	270
	10	29.9			26.0						23.5	20.6	5.0	281
	13	33.1			32.7						23.1	11.0	4.2	261
	16	32.3			30.9						23.4	13.4	4.4	269
	19	33.7			24.0						22.4	19.9	4.7	246
	22	34.3			23.6						17.1	25.0	4.8	140
TOTALS		26.2			39.8						16.1	15.9	4.3	1491

NAVWEASERVCOM

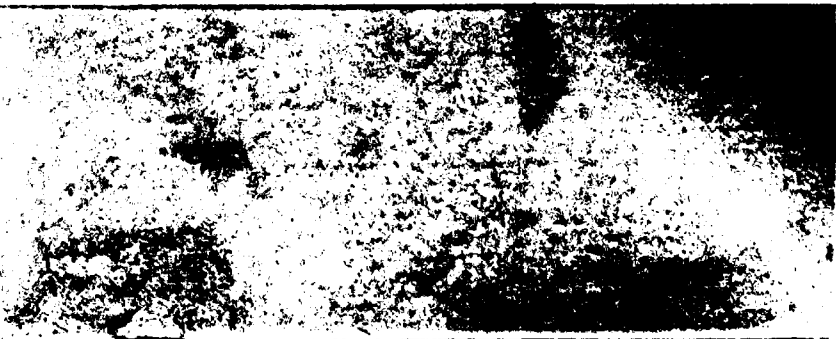
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148 Y

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43115	IMPERIAL BEACH, CALIFORNIA	73-82	JUN
STATION	STATION NAME	PERIOD	MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUN	01													
	04													
	07	10.6			9.2						14.1	66.1	9.2	283
	10	26.1			26.9						18.0	29.0	5.3	283
	13	31.9			34.8						16.7	16.7	4.2	282
	16	29.4			31.9						19.4	19.4	4.6	248
	19	21.6			29.4						16.9	31.9	5.6	236
	22	19.7			25.5						16.6	38.2	6.1	157
TOTALS		23.3			26.3						16.9	33.6	5.7	1491

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SKY COVER

03115

73-R2

JUL

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	01											10.0	10.0	1
	04													
	07	7.8			8.5						11.3	72.4	8.5	283
	10	24.6			29.5						17.9	26.1	5.3	285
	13	32.3			39.6						15.8	12.3	3.8	285
	16	27.8			39.7						23.5	9.0	4.2	234
	19	25.1			39.2						17.2	18.5	4.6	227
	22	33.3			28.1						13.1	25.5	4.6	153
TOTALS		21.6			26.4						14.1	38.0	5.9	1468

NAVWEASERVCOM

SKY COVER

445

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB.	01											100.0	10.0	1
	14											100.0	10.0	1
	17	6.9			8.3						13.1	71.6	4.6	289
	10	29.4			34.6						14.5	21.5	4.5	249
	13	36.0			40.5						13.5	10.0	3.4	249
	16	31.8			40.7						19.8	7.8	3.8	255
	19	24.2			40.8						18.8	16.3	4.5	240
	22	24.5			25.8						17.4	32.3	5.6	195
TOTALS		19.1			23.8						12.1	44.9	6.3	1522

NAVWEASERVCOM

73-42

259

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
J.F.F.	01				100.0								100.0	1
	04	50.0										50.0	50.0	2
	07	16.2			9.9						12.5	61.4	7.6	272
	10	27.4			25.4						19.1	27.6	5.2	272
	13	24.8			32.4						22.4	15.4	4.5	272
	16	29.4			39.1						14.3	13.2	4.1	235
	19	28.8			34.5						10.6	26.1	4.6	226
	22	34.3			21.1						15.5	33.1	5.3	142
TOTALS		24.6			32.8						12.3	28.4	4.9	1422

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SKY COVER

1915 IMPERIAL BEACH, CALIFORNIA

73-80

1951

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
01	01													
	02													
	03	24.6			20.7						15.2	35.5	5.0	276
	04	30.6			29.9						15.3	24.2	4.7	291
	05	33.4			35.6						15.7	14.9	4.7	291
	06	38.9			32.7						17.1	11.4	5.7	246
	07	42.0			25.2						16.8	15.9	3.9	228
	08	24.6			24.8						12.1	35.3	5.7	191
	09													
	10													
	11													
	12													
	13													
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	31													
TOTALS		32.4			26.2						15.4	24.6	4.7	1457

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SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY (COMMAND)
DETACHMENT ASHEVILLE NC OCT 83

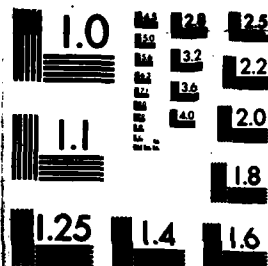
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY (COMNAV)
DETACHMENT ASHEVILLE NC OCT 83

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FIG. 4/2

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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CONCLUSIONS

DM

NAVWEASERVCOM

SKY COVER

93115 IMPERIAL BEACH, CALIFORNIA

73-82

DEC

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	01	50.0										50.0	5.0	2
	04	100.0											.0	1
	07	36.0			28.3						14.3	21.3	4.3	250
	10	35.4			26.1						17.9	20.5	4.4	268
	13	31.7			32.1						19.4	16.8	4.4	268
	16	31.8			31.5						18.7	18.0	4.4	267
	19	43.4			19.3						18.4	18.9	4.1	212
	22	42.1			15.1						15.9	27.0	4.6	126
TOTALS		46.3			19.1						13.1	21.6	3.9	1402

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SKY COVER

93115 IMPERIAL BEACH, CALIFORNIA

73-82

ALL

STATION

STATION NAME

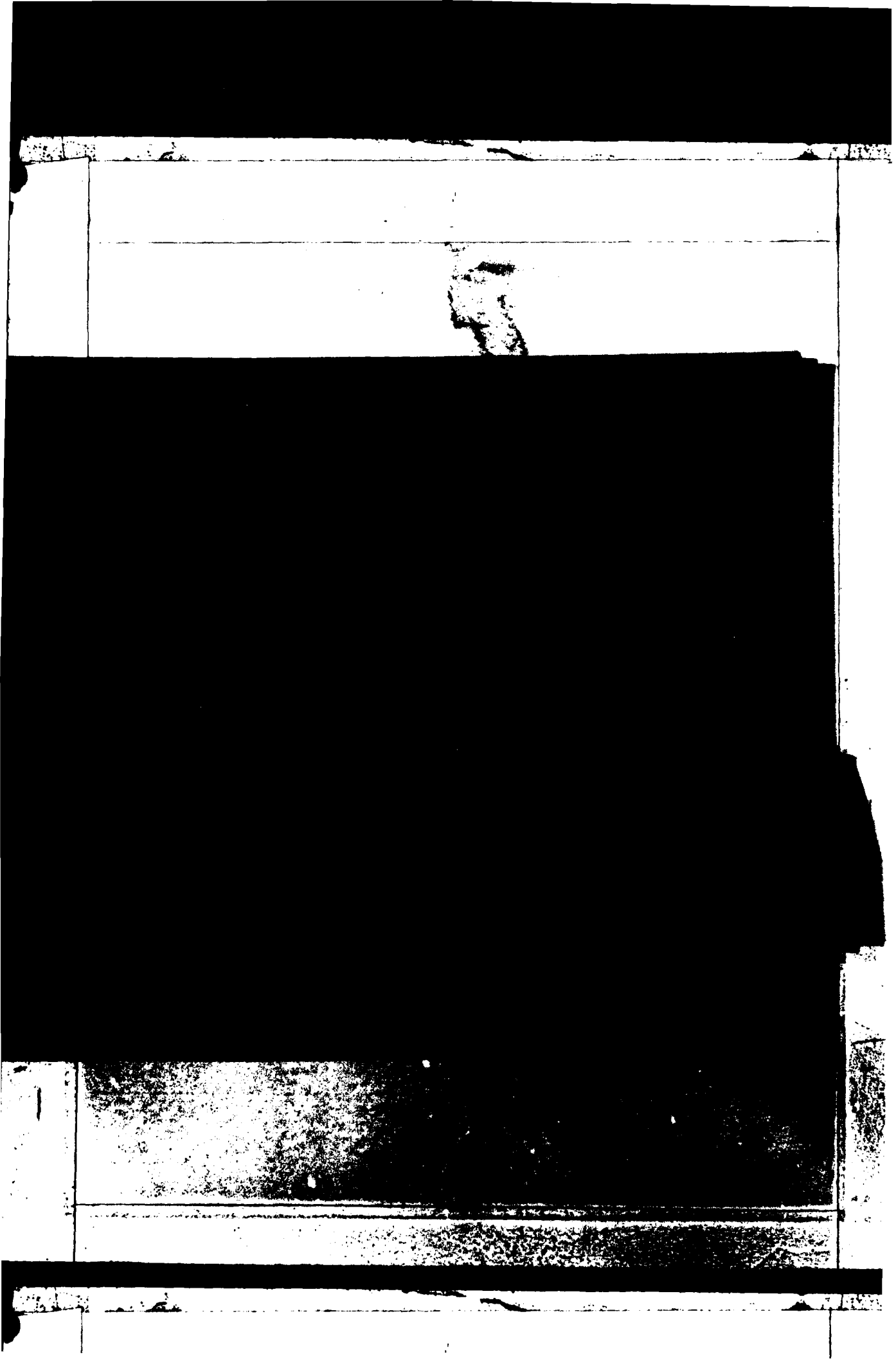
PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	25.9			23.7						28.5	21.9	5.5	1465
FEB		37.2			24.4						16.4	20.0	4.4	1332
MAR		27.1			25.4						25.1	22.5	5.3	1521
APR		24.2			39.8						16.1	15.9	4.3	1491
MAY		15.0			16.1						15.4	53.6	7.2	1446
JUN		23.3			26.3						16.9	33.6	5.7	1491
JUL		21.6			24.4						14.1	38.0	5.9	1468
AUG		14.1			23.8						12.1	44.9	6.3	1522
SEP		26.6			32.8						12.3	28.4	4.9	1422
OCT		32.4			28.2						15.4	24.0	4.7	1450
NOV		44.6			26.1						12.7	16.7	3.6	1409
DEC		46.3			19.1						13.1	21.6	3.9	1402
TOTALS		28.9			24.0						16.7	28.4	5.1	17419

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Asheville, N. C.

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperature
 - b. Daily minimum temperature
 - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σX). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

DAILY TEMPERATURES

93115
STATION

IMPERIAL BEACH, CALIFORNIA

45-49, 55-82

YEARS

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)**

MAXIMUM

[illegible]

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DAILY TEMPERATURES

YES

MINIMUM

NAVWEASERVCOM

NAYWEASERVCOM

DAILY TEMPERATURES

YEARS

STATION NAME

4544

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

JANUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	53.3	11.8	62.2	16.8	76	24.4	1981	44.4	6.9	35	1.7	1976
2	52.7	11.5	62.5	16.7	76	24.4	1980	43.4	6.3	32	.0	1976
3	52.7	11.5	62.5	16.9	72	22.2	1956	42.9	6.1	34	1.1	1976*
4	51.1	11.7	62.4	17.0	76	24.4	1969	43.5	6.4	30	-1.1	1971
5	53.4	12.1	63.6	17.6	70	25.5	1969	44.0	6.7	29	-1.7	1971
6	54.3	12.4	63.9	17.7	75	23.9	1958	44.7	7.1	35	1.7	1971
7	49.0	12.6	64.4	18.0	80	27.8	1962	44.8	7.1	26	-3.3	1971
8	53.0	12.2	63.1	17.3	74	23.3	1978	44.8	7.1	31	-0.6	1971
9	54.4	12.4	63.2	17.3	72	22.2	1962*	45.7	7.6	35	1.7	1946
10	50.1	12.8	63.6	17.6	74	23.3	1981	46.2	7.9	37	2.8	1946
11	49.5	12.5	63.0	17.2	75	23.9	1981	46.0	7.8	36	2.2	1972
12	54.0	12.7	63.2	17.3	74	23.3	1968	46.4	8.0	37	2.8	1972
13	55.4	13.0	65.0	18.3	81	27.2	1969	45.9	7.7	27	-2.8	1963
14	55.0	13.3	65.4	18.6	81	27.2	1975	46.3	7.9	34	1.1	1963
15	54.0	12.7	64.5	18.1	70	26.1	1976	45.1	7.3	27	-2.8	1947
16	54.7	13.2	65.4	18.6	86	30.0	1976	46.0	7.8	34	1.1	1947
17	55.0	13.3	65.7	18.7	83	28.3	1977	46.5	8.1	36	2.2	1947
18	55.4	13.0	64.8	18.2	7	25.6	1977*	46.3	7.9	39	3.3	1963*
19	55.2	12.9	63.7	17.6	81	27.2	1961	46.7	8.2	39	3.9	1949
20	54.7	12.6	63.3	17.4	79	26.1	1976	46.0	7.8	35	1.7	1949
21	54.0	12.7	63.0	17.2	82	27.8	1976	46.7	8.2	36	2.2	1949
22	54.0	12.2	62.6	17.0	77	25.0	1976	45.4	7.4	35	1.7	1949
23	54.0	12.2	62.6	17.0	91	26.7	1968	45.5	7.5	37	2.8	1947
24	54.0	12.2	62.4	16.9	77	25.0	1968	45.6	7.6	39	3.9	1947
25	54.3	12.4	61.7	16.5	72	22.2	1977	47.0	8.3	37	2.8	1966
26	54.0	12.7	62.1	16.7	70	21.1	1977	47.4	8.6	39	3.9	1976*
27	55.1	12.8	63.4	17.4	76	24.4	1971	46.8	8.2	39	3.9	1979*
28	54.0	12.7	63.6	17.6	81	27.2	1976	45.6	7.6	29	-1.7	1949
29	54.0	12.7	63.8	17.7	70	25.6	1971*	45.7	7.6	35	1.7	1979
30	54.0	12.2	62.7	17.1	70	26.1	1971	45.3	7.4	34	1.1	1946
31	53.6	12.0	62.9	17.2	70	25.6	1962	44.3	6.8	28	-2.2	1946
Monthly	54.5	12.5	63.4	17.4	86	30.0	1976	45.5	7.5	26	-3.3	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 1946-1947 1949-1949 9999-9999 YEARS FEBRUARY MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	55.0	12.8	63.3	17.4	72	26.1	1958		46.8	8.2	35	1.7	1946	
2	55.2	12.9	63.5	17.5	76	24.4	1963		46.8	8.2	35	1.7	1946	
3	55.3	13.3	65.6	18.7	83	28.1	1963		46.4	8.0	36	2.2	1956	
4	55.3	13.2	65.0	18.3	81	26.7	1978		46.7	8.2	35	1.7	1956	
5	55.0	12.8	63.1	17.3	76	24.4	1977		46.8	8.2	36	2.2	1946	
6	55.0	12.8	62.8	17.1	71	21.1	1977*		47.2	8.4	32	.0	1946	
7	54.2	12.3	61.9	16.6	73	21.1	1970		46.6	8.1	37	2.8	1974	
8	55.2	12.9	62.6	17.0	74	23.3	1967		47.8	8.8	40	4.4	1964*	
9	56.0	13.3	63.7	17.6	73	22.3	1980*		48.3	9.1	35	1.7	1956	
10	55.4	13.0	64.2	17.9	76	24.4	1971		46.6	8.1	35	1.7	1956*	
11	56.2	13.4	64.4	18.0	73	25.6	1977*		47.9	8.8	36	2.2	1956	
12	56.2	13.4	64.8	18.2	76	25.6	1977*		47.6	8.7	37	2.8	1956*	
13	55.9	13.3	64.0	17.8	81	27.2	1977		47.9	8.8	37	2.8	1946	
14	55.4	13.0	63.4	17.4	76	24.4	1981		47.4	8.6	35	1.7	1946	
15	55.7	13.2	63.9	17.7	79	26.1	1981		47.9	8.6	36	2.2	1977	
16	55.4	13.0	63.1	17.3	77	25.0	1977		47.8	8.8	38	3.3	1974*	
17	55.1	12.8	63.2	17.3	79	26.1	1981		47.1	8.4	36	2.2	1956	
18	55.3	12.9	63.6	17.6	77	25.0	1981		47.0	8.3	39	3.9	1946	
19	55.7	13.2	64.4	18.0	81	27.2	1982		47.1	8.4	40	4.4	1956	
20	55.2	12.9	63.2	17.3	74	23.3	1964		47.2	8.4	38	3.3	1956	
21	56.0	13.3	64.5	18.1	81	26.7	1981		47.5	8.6	38	3.3	1971	
22	56.0	13.3	64.1	17.8	81	26.7	1976		48.0	8.9	33	.6	1975	
23	56.2	13.4	65.4	18.6	76	24.4	1976		46.9	8.3	41	5.0	1975*	
24	56.4	13.6	64.8	18.2	81	26.7	1974		48.0	8.9	38	3.3	1960	
25	55.7	13.2	63.8	17.7	82	27.9	1974		47.6	8.7	39	3.9	1977	
26	55.1	12.8	62.7	17.1	80	26.7	1980		47.5	8.6	40	4.4	1977	
27	54.6	12.6	63.0	17.2	73	22.3	1980*		46.1	7.8	38	3.3	1971	
28	56.1	13.4	64.0	17.8	74	25.6	1967		48.2	9.0	39	3.9	1962	
29	56.0	13.3	62.1	16.7	67	19.4	1980		49.9	9.9	42	5.6	1956	
30														
31														
Monthly	55.5	13.1	63.8	17.7	83	28.1	1963		47.3	8.5	32	.0	1946	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

MARCH

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	56.2	13.4	63.1	17.3	77	25.0	1967	49.3	9.6	39	3.9	1956
2	55.1	12.8	62.2	16.8	68	20.0	1980	47.9	8.8	33	.6	1971
3	54.9	12.7	62.7	17.1	77	25.0	1968	47.2	8.4	35	1.7	1971
4	55.4	13.0	63.5	17.5	77	26.1	1968	47.2	8.4	35	1.7	1966
5	55.6	13.1	63.8	17.7	77	25.6	1959	47.4	8.6	40	4.4	1958
6	55.4	13.2	63.8	17.7	8	26.7	1979	47.7	8.7	40	4.4	1976
7	55.4	13.0	63.9	17.7	83	28.3	1979	46.9	8.3	36	2.2	1956
8	55.3	12.9	63.0	17.2	77	25.0	1946	47.6	8.7	35	3.3	1956
9	55.2	12.9	62.4	16.9	72	22.2	1946	48.0	8.9	36	3.3	1956
10	55.0	12.8	61.7	16.5	66	18.9	1981*	48.2	9.0	39	3.9	1956
11	55.3	12.9	62.9	17.2	84	28.9	1959	47.7	8.7	40	4.4	1977
12	55.7	13.2	63.4	17.4	7	25.6	1959	48.0	8.9	40	4.4	1977
13	56.2	13.3	63.5	17.5	73	25.6	1947	48.5	9.2	35	3.3	1956
14	55.3	12.9	63.5	17.5	75	23.9	1947	47.1	8.4	37	2.8	1962
15	54.4	12.7	62.9	17.2	75	23.9	1978	46.8	8.2	39	3.9	1962*
16	57.1	13.9	65.3	18.5	87	30.6	1978	48.9	9.4	41	5.0	1962*
17	57.0	13.9	64.8	18.2	93	33.0	1978	49.2	9.6	44	6.7	1971*
18	56.2	13.4	63.1	17.3	77	25.0	1960	49.3	9.6	40	4.4	1956
19	57.1	13.9	63.9	17.7	81	27.2	1960	50.3	10.2	42	5.6	1963
20	56.4	13.6	63.6	17.7	75	23.9	1959	49.0	9.4	43	6.1	1977*
21	57.1	13.9	64.3	17.9	7	25.6	1976	50.0	10.0	44	6.7	1966
22	57.0	13.9	63.9	17.7	79	26.1	1976	50.1	10.1	40	4.4	1957
23	56.8	13.8	63.6	17.6	74	25.6	1966	50.0	10.0	37	2.8	1957
24	57.1	13.9	64.2	17.9	71	21.7	1978*	49.9	9.9	41	5.0	1962
25	57.2	14.0	64.3	17.9	82	27.8	1947	50.0	10.0	41	5.0	1977
26	56.7	13.8	64.2	17.9	75	23.9	1969	49.6	9.8	40	4.4	1977
27	57.5	14.2	64.0	17.8	75	23.9	1969	51.0	10.6	42	5.6	1975
28	57.2	14.0	63.6	17.7	69	20.6	1978	50.6	10.3	47	8.3	1972*
29	56.6	13.7	64.2	17.9	75	23.9	1980	49.0	9.4	40	4.4	1975
30	56.7	13.7	63.7	17.6	72	22.2	1979	49.7	9.8	41	5.0	1967
31	57.3	14.1	64.0	17.8	72	22.2	1976	50.7	10.4	41	5.0	1977
Monthly	56.2	13.4	63.6	17.6	93	33.9	1978	48.8	9.3	33	.6	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION LA JOLLA BEACH, CALIFORNIA
STATION NAME

1945-1949 1956-1982
YEARS

APRIL
MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	
1	57.2	14.0	63.4	17.7	77	26.1	1959		50.5	10.3	43	6.1	1945
2	57.4	14.1	64.5	18.1	82	27.8	1960		50.2	10.1	41	5.0	1976
3	56.7	13.8	64.5	18.1	81	27.2	1960		49.2	9.6	36	2.2	1945
4	57.7	14.3	66.2	19.0	79	26.1	1971		49.2	9.6	34	1.1	1945
5	57.5	14.7	67.0	19.4	79	25.6	1981*		50.0	10.0	40	4.4	1945
6	57.7	14.4	64.5	18.1	72	22.2	1945		51.2	10.7	40	4.4	1945
7	57.6	14.2	64.7	18.2	74	24.4	1962*		50.5	10.3	43	6.1	1945
8	58.1	14.5	65.7	18.7	79	26.1	1980		50.5	10.3	39	3.9	1948
9	58.6	14.8	65.6	18.7	83	31.1	1963		51.7	12.9	45	7.2	1967*
10	58.5	14.7	65.4	18.6	79	25.6	1968		51.6	12.9	44	6.7	1945
11	58.4	14.7	65.6	18.7	79	26.1	1946		51.2	10.7	43	6.1	1945
12	58.9	14.9	66.3	19.1	90	32.2	1947		51.5	10.6	41	5.0	1948
13	58.7	14.8	66.2	19.0	89	31.7	1947		51.3	10.7	40	4.4	1948
14	54.1	15.1	67.1	19.5	83	28.3	1964		51.1	10.6	39	3.9	1945
15	59.7	15.4	67.4	19.7	83	29.3	1958		52.0	11.1	41	5.0	1945
16	58.8	14.9	64.8	18.2	82	27.8	1948		52.8	11.6	42	5.6	1945
17	58.8	14.9	64.8	18.2	72	22.2	1948		52.8	11.6	42	5.6	1976
18	58.4	14.7	64.2	17.9	69	20.6	1969		52.6	11.4	42	5.6	1976
19	58.4	14.7	65.2	19.4	74	23.3	1965		51.7	12.9	41	5.0	1945
20	58.6	14.8	65.3	18.5	74	23.3	1958		51.9	11.1	44	6.7	1966
21	58.2	14.6	64.7	18.2	75	23.9	1958		51.8	11.0	42	5.6	1977
22	56.6	14.8	65.0	18.3	72	22.2	1977		52.2	11.2	44	6.7	1963
23	58.9	14.9	65.5	18.6	71	21.7	1968		52.3	11.3	45	7.2	1967
24	58.8	14.9	65.7	18.7	72	22.2	1978*		51.9	11.1	46	7.8	1963*
25	58.9	14.9	65.6	18.7	71	21.7	1979		52.2	11.2	45	7.2	1948
26	59.1	15.1	65.2	18.4	79	21.1	1969		53.0	11.7	46	7.8	1967
27	59.5	15.3	65.7	18.7	74	23.3	1969		53.3	11.8	41	5.0	1971
28	59.9	15.5	66.5	19.2	74	23.3	1980*		53.4	11.9	44	6.7	1971
29	59.8	15.4	65.9	18.8	74	23.3	1981		53.8	12.1	45	7.2	1970
30	59.9	15.5	66.1	18.9	71	21.7	1974*		53.6	12.0	42	5.6	1948
31													
Monthly	58.6	14.8	65.5	18.6	90	32.2	1947		51.7	10.9	34	1.1	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

MAY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	60.7	15.9	66.8	19.3	75	23.9	1980	54.6	12.6	44	6.7	1967
2	60.6	15.9	67.0	19.4	77	25.0	1980*	54.3	12.4	46	7.8	1967
3	60.9	16.1	66.7	19.3	78	25.6	1970	55.2	12.9	47	8.3	1943
4	60.7	15.9	66.2	19.0	71	21.7	1958	55.1	12.8	50	10.0	1948
5	61.7	15.9	66.0	18.9	75	23.9	1978	55.4	13.0	49	9.4	1959
6	60.8	16.1	66.7	19.3	72	22.2	1978*	55.1	12.8	44	6.7	1967
7	61.6	16.1	67.1	19.5	73	22.8	1978	54.9	12.7	48	8.9	1968*
8	61.7	16.5	67.7	19.8	83	28.3	1978	55.7	13.2	47	9.4	1979*
9	61.5	16.4	67.5	19.7	78	25.6	1978	55.5	13.1	47	8.3	1964
10	61.3	16.3	66.7	19.3	74	23.3	1981	55.9	13.3	48	8.9	1979
11	61.0	16.1	66.7	19.3	75	23.9	1979*	55.3	12.9	50	10.0	1948
12	60.9	16.1	66.8	19.3	81	27.2	1979	55.0	12.8	46	7.8	1967
13	61.4	16.3	67.9	19.9	91	32.8	1979	54.8	12.7	46	7.8	1956
14	61.7	16.5	67.6	19.8	82	27.8	1956	55.8	13.2	49	9.4	1967
15	62.2	16.8	68.2	20.1	86	30.0	1956	56.1	13.4	47	8.3	1968
16	61.2	16.6	68.5	20.3	92	33.3	1967	55.4	13.0	50	10.0	1968*
17	61.7	16.5	68.2	20.1	88	31.1	1956	55.2	12.9	46	7.8	1971
18	62.0	16.7	67.6	19.8	83	28.3	1978	56.3	13.5	47	8.3	1971
19	61.6	16.6	67.4	19.7	80	26.7	1978	56.4	13.6	52	11.1	1977*
20	61.5	16.4	66.9	19.4	75	23.9	1980	56.0	13.3	50	10.0	1948
21	61.7	16.5	67.1	19.5	73	22.8	1979	56.2	13.4	46	7.8	1948
22	61.8	16.6	67.1	19.5	83	28.3	1958	56.6	13.7	49	9.4	1971*
23	61.7	16.5	66.6	19.2	74	23.3	1979	56.9	13.8	53	11.7	1976*
24	61.8	16.6	66.7	19.3	72	22.2	1981*	56.9	13.8	50	10.0	1978
25	61.9	16.6	67.2	19.6	74	23.3	1980	56.7	13.7	49	9.4	1980
26	62.3	16.8	67.5	19.7	75	23.9	1981	57.1	13.9	52	11.1	1980
27	62.5	16.9	67.7	19.8	73	22.8	1981*	57.3	14.1	51	10.6	1971*
28	62.2	16.8	67.9	19.9	70	26.1	1980	56.6	13.7	46	8.9	1971
29	62.2	16.8	67.2	19.6	73	22.8	1980	57.2	14.0	48	8.9	1971
30	62.7	17.1	67.6	19.8	77	25.0	1978	57.7	14.3	52	11.1	1961
31	62.8	17.1	67.3	19.6	75	23.9	1978	58.3	14.6	52	11.1	1957
Monthly	61.6	16.4	67.2	19.6	92	33.3	1967	56.0	13.3	44	6.7	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1962

JUNE

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	° F	° C	° F	° C	° F	° C		° F	° C	° F	° C	
1	62.8	17.1	67.7	19.8	74	23.3	1978	57.9	14.4	46	7.8	1971
2	62.6	17.0	67.6	19.8	72	22.2	1978	57.6	14.2	47	8.3	1971
3	63.1	17.3	67.7	19.8	73	22.5	1978*	58.5	14.7	51	10.6	1967
4	63.2	17.3	67.9	19.9	77	25.0	1980	58.5	14.7	52	11.1	1967
5	63.4	17.4	68.4	20.2	79	26.1	1980	58.3	14.6	49	9.4	1971
6	63.4	17.4	67.7	19.8	76	24.4	1980	59.0	15.0	54	12.2	1971
7	63.4	17.4	68.1	20.1	76	24.4	1980	58.6	14.8	53	11.7	1980
8	63.1	17.3	67.8	19.9	77	25.0	1980	58.4	14.7	54	12.2	1980
9	63.1	17.3	67.9	19.9	83	28.3	1979	58.4	14.7	51	10.6	1948
10	63.9	17.7	68.7	20.4	91	32.8	1979	59.1	15.1	51	10.6	1964
11	63.8	17.7	68.7	20.4	85	29.4	1979	58.9	14.9	53	11.7	1964
12	64.3	17.9	69.2	20.7	80	26.7	1980*	59.3	15.2	56	13.3	1980*
13	64.5	18.1	69.6	20.9	84	28.9	1981	59.3	15.2	56	13.3	1980*
14	63.9	17.7	69.2	20.7	82	27.6	1981*	58.8	14.9	53	11.7	1970
15	64.3	17.9	69.7	20.9	92	33.3	1981	59.8	14.9	52	11.1	1971
16	64.0	17.8	69.3	20.7	94	34.4	1981	59.1	15.1	54	12.2	1971*
17	64.2	17.9	69.9	21.1	85	29.4	1981	58.8	14.9	54	12.2	1979*
18	64.7	18.2	69.6	20.9	89	31.7	1987	59.8	15.4	51	10.6	1979
19	64.7	18.2	69.6	20.9	82	27.6	1981	59.7	15.4	56	13.3	1979*
20	64.2	17.9	69.2	20.7	80	26.7	1973	59.2	15.1	54	12.2	1948
21	64.7	18.2	69.7	20.9	80	26.7	1978	59.7	15.4	55	12.8	1971
22	65.1	18.4	70.0	21.1	86	30.0	1981	60.4	16.8	56	13.3	1971
23	65.4	18.6	70.7	21.5	86	30.0	1980	60.1	15.6	54	12.2	1971
24	65.2	18.4	70.1	21.2	88	31.1	1981	60.3	16.7	53	11.7	1963
25	64.9	18.3	69.9	21.1	80	26.7	1980	59.9	15.5	54	12.2	1975
26	65.1	18.4	70.2	21.2	87	30.6	1980	60.0	15.6	54	12.2	1965
27	65.1	18.4	70.3	21.3	77	25.0	1974	59.8	15.4	51	10.6	1965
28	65.1	18.4	70.7	21.5	90	32.2	1980	59.6	15.3	55	12.8	1965
29	65.1	18.4	70.6	21.4	84	28.9	1980	59.7	15.4	55	12.8	1963
30	64.7	18.2	70.4	21.3	74	25.6	1980	59.1	15.1	54	12.2	1964
31												
Monthly	64.2	17.9	69.2	20.7	94	34.4	1981	59.2	15.1	46	7.8	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

JULY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	
1	65.2	18.4	70.3	21.3	81	27.2	1980		60.1	15.6	53	11.7	1968
2	65.7	18.7	70.8	21.6	77	25.7	1957		60.7	15.9	55	12.8	1964
3	65.6	18.7	70.6	21.4	78	25.6	1981		60.6	15.9	56	13.3	1971
4	65.8	18.8	70.7	21.5	77	26.1	1957		60.9	16.1	54	12.2	1977
5	65.6	18.7	70.7	21.5	82	27.8	1980		60.6	15.9	53	11.7	1968
6	66.0	18.9	70.9	21.6	76	24.4	1981		61.1	16.2	54	12.2	1968
7	66.3	19.1	71.4	21.9	8	26.7	1968		61.2	16.2	52	11.1	1948
8	66.6	19.2	72.0	22.2	83	28.7	1980		61.1	16.2	56	13.3	1979*
9	66.4	19.1	72.1	22.3	85	29.4	1980		60.6	15.9	52	11.1	1948
10	66.7	19.3	72.2	22.3	85	29.4	1980		61.2	16.2	55	12.8	1947
11	66.6	19.3	72.2	22.3	89	31.7	1980		61.3	16.3	55	12.8	1979
12	66.4	19.1	71.2	21.8	77	25.0	1968		61.6	16.4	55	12.8	1971
13	66.7	19.3	71.4	21.9	78	25.6	1980		61.9	16.6	56	13.3	1971
14	66.7	19.3	71.7	22.1	81	26.7	1980		61.8	16.6	57	13.9	1979*
15	67.3	19.6	72.3	22.4	89	31.7	1980		62.3	16.8	57	13.9	1971
16	66.7	19.4	71.6	22.0	89	31.7	1980		62.2	16.8	54	12.2	1971
17	67.0	19.4	71.8	22.1	82	27.8	1974		62.3	16.8	55	12.8	1969
18	67.2	19.6	72.1	22.3	79	26.1	1974		62.3	16.8	57	13.9	1969
19	67.4	19.9	72.4	22.4	85	29.4	1974		63.4	17.4	57	13.9	1947
20	67.7	19.8	72.7	22.6	85	29.4	1974		62.8	17.0	55	12.8	1973
21	67.7	19.8	72.2	22.3	83	28.7	1974		63.2	17.3	57	13.9	1973
22	67.6	19.8	72.1	22.3	79	26.1	1974		63.1	17.3	59	15.0	1971
23	68.1	20.1	72.6	22.6	83	28.3	1974		63.6	17.6	59	15.0	1973*
24	68.1	20.1	72.5	22.5	82	27.8	1974		63.6	17.6	58	14.4	1973
25	68.3	20.2	72.9	22.7	83	28.3	1974		63.6	17.6	58	14.4	1973
26	68.8	20.4	73.5	23.1	81	27.2	1974		64.1	17.8	58	14.4	1977*
27	69.2	20.7	74.2	23.4	81	27.2	1980*		64.1	17.8	57	13.9	1965
28	69.2	20.7	74.4	23.6	82	27.8	1980*		64.1	17.8	57	13.9	1979
29	69.6	20.9	74.5	23.6	90	32.2	1980		64.6	18.1	58	14.4	1971
30	69.9	21.1	75.4	24.1	96	35.6	1980		64.4	18.0	54	12.2	1948
31	69.6	20.9	74.9	23.8	86	30.7	1980		64.3	17.9	57	13.9	1978
Monthly	67.3	19.6	72.3	22.4	96	35.6	1980		62.3	16.8	52	11.1	1948

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

AUGUST

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	69.4	21.0	75.0	23.9	97	36.1	1982	64.6	18.1	55	13.0	1978
2	69.4	20.8	74.1	23.4	70	26.1	1980	64.6	18.1	52	14.4	1978
3	68.8	20.4	73.6	23.1	82	27.8	1980	64.1	17.8	58	14.4	1956
4	68.6	20.3	73.2	22.9	72	25.6	1980	64.0	17.8	56	13.3	1956
5	69.4	20.6	74.0	23.3	81	27.2	1980	64.0	17.8	58	14.4	1956
6	69.0	20.6	74.1	23.4	83	28.3	1980	63.9	17.7	58	14.4	1957
7	69.3	20.7	74.9	23.8	83	28.3	1980	63.8	17.7	58	14.4	1957
8	69.5	20.8	74.8	23.8	88	31.1	1980	64.1	17.8	56	13.3	1957
9	69.1	20.6	74.1	23.4	80	26.7	1968	64.1	17.8	58	14.4	1976
10	69.4	20.8	74.7	23.7	90	32.2	1980	64.2	17.9	58	14.4	1976
11	69.4	20.8	74.1	23.4	81	26.7	1980	64.7	18.2	59	15.0	1973
12	69.5	20.8	73.8	23.2	80	26.7	1980	65.2	18.4	60	15.6	1949
13	69.7	20.9	74.4	23.6	85	29.4	1965	65.1	18.4	60	15.6	1973
14	69.4	20.8	73.9	23.3	81	27.2	1980	64.9	18.3	60	15.6	1979
15	69.8	21.0	74.3	23.5	81	27.2	1970	65.3	18.5	60	15.6	1948
16	69.5	20.8	74.4	23.6	82	27.8	1970	64.6	18.1	59	15.0	1972
17	68.9	20.5	73.8	23.2	79	26.1	1970	64.0	17.8	58	14.4	1972
18	69.4	20.8	74.0	23.3	79	26.1	1968	64.7	18.2	55	12.8	1978
19	69.4	20.8	74.2	23.4	74	25.6	1966	64.6	18.1	55	12.8	1970
20	69.6	20.9	74.1	23.4	70	26.1	1973	65.0	18.3	60	15.6	1978
21	69.3	20.7	74.3	23.5	83	28.3	1982	64.3	17.9	58	14.4	1959
22	69.1	20.6	74.5	23.6	86	30.7	1972	63.7	17.6	57	13.9	1978
23	68.9	20.5	74.3	23.5	82	27.8	1968	63.5	17.5	55	12.8	1978
24	68.9	20.5	74.3	23.5	81	27.2	1968	63.6	17.6	53	11.7	1978
25	68.9	20.5	74.0	23.3	80	26.7	1968	63.7	17.6	55	12.8	1978
26	69.2	20.7	74.4	23.6	83	28.3	1957	64.1	17.8	55	12.8	1978
27	68.6	20.3	73.9	23.3	79	26.1	1981	63.4	17.4	56	14.4	1978
28	68.5	20.3	73.4	23.0	81	27.2	1968	63.7	17.6	58	14.4	1975
29	68.6	20.3	73.5	23.1	80	26.7	1967	63.8	17.7	58	14.4	1971
30	68.2	20.1	73.4	23.0	81	27.2	1972	63.0	17.2	56	13.3	1971
31	68.4	20.2	73.2	22.9	80	26.7	1967	63.6	17.6	58	14.4	1971
Monthly	69.1	20.6	74.1	23.4	97	36.1	1980	64.2	17.9	53	11.7	1978

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

SEPTEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	
1	69.2	20.7	74.4	23.6	97	36.1	1967		64.0	17.8	58	14.4	1971
2	68.7	20.4	73.8	23.2	80	26.7	1982		63.6	17.6	57	13.9	1964
3	68.6	20.3	74.1	23.4	82	27.8	1982		63.1	17.3	54	12.2	1971
4	69.1	20.6	74.4	23.6	84	30.0	1961		63.8	17.7	52	11.1	1971
5	68.6	20.3	74.0	23.3	84	28.9	1961		63.4	17.4	56	13.3	1971
6	68.2	20.1	73.3	22.9	81	27.2	1974*		63.1	17.3	55	12.8	1970
7	68.5	20.3	73.6	23.1	91	32.8	1958		63.4	17.4	54	13.3	1973
8	68.0	20.0	73.9	23.3	80	26.7	1977*		62.2	16.8	55	12.8	1965
9	68.1	20.1	74.0	23.3	85	29.4	1956		62.3	16.8	54	12.2	1961
10	68.8	20.4	74.6	23.7	82	27.8	1960		63.0	17.2	54	13.3	1961
11	69.0	20.6	74.8	23.8	99	37.2	1959		63.1	17.3	56	13.3	1957
12	68.5	20.3	73.5	23.1	82	27.8	1963*		63.4	17.4	57	13.9	1957
13	67.7	19.8	72.5	22.5	80	26.7	1963		62.9	17.2	55	12.8	1972*
14	67.5	19.7	72.8	22.7	80	26.7	1979		62.2	16.8	52	11.1	1966
15	67.3	19.6	72.9	22.7	84	28.9	1979		61.8	16.6	55	12.8	1970*
16	68.1	20.1	73.7	23.2	95	35.0	1979		62.4	16.9	55	12.8	1970
17	67.7	19.8	72.8	22.7	84	28.9	1979		62.7	17.1	58	14.4	1977*
18	67.5	19.7	73.2	22.9	87	30.6	1979		61.7	16.8	54	12.2	1973
19	67.2	19.4	73.1	22.8	83	28.3	1979		60.9	16.1	52	11.1	1970
20	66.9	19.4	73.0	22.8	81	27.2	1978		60.8	16.0	52	11.1	1978*
21	67.1	19.5	72.8	22.7	82	27.8	1978		61.3	16.3	54	12.2	1965*
22	68.8	19.3	73.4	23.0	86	30.0	1978		60.3	15.7	55	12.8	1972*
23	68.0	20.0	75.2	24.0	107	41.7	1975		60.7	15.9	51	10.6	1970
24	68.1	20.1	74.7	23.7	103	39.4	1978		61.5	16.4	52	11.1	1970
25	67.8	19.9	74.6	23.7	93	33.9	1978		60.9	16.1	53	11.7	1945
26	67.6	19.8	74.6	23.7	108	42.2	1963		60.7	15.9	51	10.6	1965
27	69.2	20.1	74.2	23.4	100	37.8	1963		62.2	16.8	53	11.7	1971
28	67.7	19.8	74.1	23.4	92	33.3	1970		61.4	16.3	51	10.6	1971*
29	67.4	19.7	73.5	23.1	85	29.4	1945		61.3	16.3	52	11.1	1965
30	66.8	19.3	72.7	22.6	86	30.0	1945		61.0	16.1	55	12.8	1971
31													
Monthly	68.0	20.0	73.7	23.2	108	42.2	1963		62.2	16.8	51	10.6	1971*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1962

OCTOBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	56.4	13.1	72.6	22.6	87	30.6	1965*	60.1	15.6	50	10.0	1971
2	56.6	13.2	73.3	22.9	92	33.3	1945	60.0	15.6	51	10.6	1971
3	55.4	13.0	71.7	22.1	74	25.6	1945	59.0	15.0	51	10.6	1971
4	55.4	13.0	71.9	22.2	80	26.7	1964	59.0	15.0	51	10.6	1973*
5	55.8	13.2	72.5	22.5	90	32.2	1960	59.2	15.1	53	11.7	1968*
6	56.3	13.5	72.9	22.9	82	31.7	1971	60.2	15.7	52	11.1	1967
7	55.5	13.1	72.5	22.5	85	29.4	1967	59.1	15.1	50	10.0	1957
8	54.8	12.8	71.9	22.2	82	27.8	1982*	57.6	14.2	45	7.2	1970
9	54.9	12.8	71.6	22.0	91	32.2	1982	58.1	14.5	50	10.0	1970
10	54.2	12.7	71.2	21.8	85	29.4	1971	57.2	14.0	49	9.4	1970
11	54.5	12.8	71.5	21.9	88	31.1	1982	57.6	14.2	49	9.4	1973*
12	63.8	17.7	70.2	21.2	81	27.2	1982	57.5	14.2	49	9.4	1973
13	54.1	12.6	71.1	21.7	81	27.2	1982	57.1	13.9	51	10.6	1973
14	55.6	13.1	73.0	22.8	105	40.6	1961	58.1	14.5	49	9.4	1961*
15	55.8	13.2	73.6	23.1	93	33.7	1961	57.9	14.4	49	9.4	1966
16	54.6	12.8	72.6	22.6	97	36.1	1958	56.6	13.7	49	9.4	1973
17	54.6	12.8	72.2	22.3	97	36.1	1958	56.9	13.8	48	8.9	1971
18	54.2	12.7	71.5	21.9	89	31.7	1958	56.8	13.8	48	8.9	1971
19	53.7	12.6	71.3	21.8	95	35.0	1964	56.1	13.4	48	8.9	1971
20	54.0	12.8	71.7	22.1	95	35.0	1964	56.3	13.5	48	8.9	1971
21	54.4	12.9	72.0	22.2	96	35.6	1965	56.7	13.7	49	9.4	1971
22	53.9	12.7	70.7	21.9	102	38.7	1965	56.0	13.3	48	8.9	1971
23	63.7	17.6	71.4	21.9	91	32.8	1965	56.0	13.3	49	9.4	1968
24	63.6	17.6	72.3	22.2	89	31.7	1965	55.0	12.8	46	8.9	1965
25	62.2	16.8	70.3	21.3	86	30.0	1966	54.0	12.2	46	7.8	1971*
26	62.1	16.7	69.5	20.8	79	26.1	1965	54.7	12.6	46	7.8	1970
27	61.9	16.6	69.4	20.8	80	26.7	1963	54.2	12.3	46	7.8	1971
28	62.7	17.1	70.1	21.2	85	29.4	1973	53.1	12.8	42	5.6	1970
29	61.0	16.1	69.3	20.7	80	26.7	1965	52.6	11.9	35	1.7	1971
30	61.7	16.5	71.0	21.7	85	29.4	1980	52.3	11.9	37	2.8	1971
31	61.2	16.2	70.2	21.2	88	31.1	1980	51.9	11.1	41	5.0	1972
Monthly	64.2	17.9	71.5	21.9	105	40.6	1961	56.8	13.8	35	1.7	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

C
4NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1982

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE		
	° F	° C	° F	° C	° F	° C		° F	° C	° F	° C			
1	51.1	16.2	69.8	21.0	94	36.7	1966	52.3	11.3	39	3.9	1971		
2	51.0	16.1	69.7	20.9	91	32.8	1966	52.3	11.3	45	7.2	1972*		
3	50.6	15.9	68.9	20.5	90	32.2	1976	52.2	11.2	45	7.2	1972*		
4	50.7	15.9	68.7	20.4	99	37.2	1976	52.6	11.4	41	5.0	1956		
5	51.4	16.3	69.7	20.9	97	36.1	1976	53.0	11.7	42	5.6	1956		
6	51.2	16.2	69.7	20.9	85	29.4	1976	52.7	11.5	43	6.1	1973		
7	50.7	15.9	69.0	20.6	85	29.4	1956	52.4	11.3	40	4.4	1947		
8	50.1	15.6	68.3	20.2	82	27.9	1956	51.8	11.0	43	6.1	1957		
9	51.1	16.2	69.5	20.8	95	35.7	1956	52.6	11.4	42	5.6	1945		
10	59.8	15.4	68.2	20.1	88	31.1	1956	51.8	11.0	42	5.6	1945		
11	59.6	15.3	67.7	19.8	91	32.8	1976	51.7	10.9	42	5.6	1947		
12	59.9	15.5	68.4	20.2	96	35.6	1976	51.5	10.8	43	6.1	1956		
13	59.5	15.3	68.1	20.1	84	28.9	1975	51.0	10.6	40	4.4	1945		
14	58.8	14.9	68.7	19.3	79	26.1	1970	51.0	10.6	42	5.6	1964		
15	58.5	14.7	66.4	19.1	83	28.3	1970	50.7	10.4	36	2.2	1964		
16	58.0	14.4	66.5	19.2	73	23.6	1976	49.5	9.7	36	2.2	1956		
17	58.1	14.5	67.4	19.7	85	29.4	1976	48.9	9.4	41	5.0	1956		
18	57.7	14.3	66.2	19.0	84	28.9	1976	49.1	9.5	41	5.0	1945		
19	57.7	14.3	66.2	19.0	72	22.2	1969*	49.2	9.6	40	4.4	1964*		
20	57.4	14.1	67.2	19.6	79	26.1	1969	47.7	8.7	38	3.3	1978*		
21	58.0	14.4	67.5	19.7	79	26.1	1995	48.5	9.2	36	2.2	1956		
22	56.7	13.7	65.8	18.8	76	24.4	1959	47.8	8.6	38	3.3	1945		
23	56.9	13.8	66.5	19.2	75	23.9	1975	47.3	8.5	38	3.3	1947*		
24	57.6	14.2	67.8	19.9	89	31.7	1976	47.4	8.6	38	3.3	1947		
25	57.8	14.3	67.5	19.7	84	28.9	1977	48.1	8.9	41	5.0	1973*		
26	58.3	14.6	67.4	19.7	85	29.4	1956	49.2	9.6	41	5.0	1956*		
27	57.6	14.2	66.9	19.4	79	26.1	1980*	48.1	9.1	39	3.9	1945		
28	57.6	14.2	67.6	19.8	80	26.7	1980*	47.5	8.6	35	1.7	1976		
29	58.4	14.7	68.5	20.3	74	23.6	1977*	48.3	9.1	37	2.8	1957		
30	58.1	14.6	67.8	19.7	79	26.1	1959	48.7	9.3	40	4.4	1975		
31														
Monthly	59.0	15.0	67.8	19.9	99	37.7	1976	50.1	10.1	35	1.7	1976		

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1982

DECEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	57.2	14.0	66.5	19.2	81	26.7	1977*		48.0	8.9	39	3.9	1975*	
2	57.8	14.3	67.4	19.7	83	28.3	1959		48.2	9.0	40	4.4	1945	
3	56.6	13.7	66.2	19.0	83	28.3	1958		47.0	8.3	38	3.3	1956	
4	56.4	13.6	64.9	18.3	80	26.7	1979		48.0	8.9	37	2.8	1973	
5	57.1	13.9	65.5	18.6	81	27.2	1965		48.7	9.3	41	5.0	1973	
6	56.1	13.4	64.8	18.2	84	28.9	1979		47.4	8.6	38	3.3	1968*	
7	55.2	12.9	64.4	18.0	73	22.8	1959		46.0	7.8	32	.0	1978	
8	55.1	12.8	64.3	17.9	75	23.9	1974*		45.9	7.7	30	-1.1	1978	
9	54.6	12.6	63.2	17.3	80	26.7	1957		46.0	7.8	31	-.6	1956	
10	55.0	12.9	63.8	17.7	77	25.0	1958		46.2	7.9	40	4.4	1978	
11	55.5	13.1	64.5	18.1	79	26.1	1958		46.5	8.1	37	2.8	1947	
12	54.8	12.7	64.6	18.1	78	25.6	1976		45.0	7.2	36	2.2	1947	
13	54.4	12.4	64.3	17.9	79	26.1	1976		44.6	7.0	36	2.2	1947	
14	53.9	12.2	64.1	17.8	79	26.1	1958		43.6	6.4	33	.6	1945	
15	53.3	12.9	65.5	18.6	84	28.9	1958		45.1	7.3	39	3.9	1975*	
16	53.4	13.0	65.4	18.6	81	27.2	1976		45.4	7.4	36	2.2	1975	
17	53.3	12.9	64.6	18.1	79	26.1	1956		46.1	7.8	35	1.7	1945	
18	54.6	12.6	62.9	17.2	73	22.8	1974*		46.3	7.9	35	1.7	1958	
19	54.7	12.6	63.6	17.6	74	23.3	1959		46.0	7.8	37	2.8	1973	
20	53.6	13.1	64.9	18.3	81	27.2	1960		46.4	8.0	37	2.8	1968	
21	53.2	12.9	63.6	17.6	74	23.3	1977		46.7	8.2	33	-.6	1968	
22	54.2	12.7	62.9	17.2	77	25.0	1976		47.3	8.5	34	1.1	1968	
23	55.3	12.9	63.8	17.7	74	23.3	1963		46.9	8.3	37	2.8	1968	
24	54.9	12.7	63.9	17.7	74	23.3	1947		45.9	7.7	35	1.7	1974	
25	55.3	12.9	64.9	18.3	72	25.6	1972*		45.6	7.6	33	-.6	1974	
26	54.4	12.4	63.4	17.4	74	25.6	1976		45.5	7.5	35	1.7	1974	
27	54.2	12.7	63.9	17.7	82	27.8	1947		45.7	7.6	34	3.3	1974	
28	54.5	12.5	62.8	17.1	74	23.3	1956		46.2	7.9	37	2.8	1966	
29	54.5	12.5	63.3	17.4	85	29.4	1963		45.8	7.6	36	2.2	1966	
30	53.3	12.8	63.0	17.2	87	30.6	1980		45.6	6.4	35	1.7	1971	
31	54.6	12.6	64.6	18.1	71	25.6	1958		44.8	6.9	38	3.3	1955	
Monthly	55.2	12.9	64.4	18.0	87	30.6	1980		46.1	7.8	39	-1.1	1978	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

95-97, 99-02

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
85				76		70	75	77	86	92		73	
86			77	79	70								
87				90	70		79		78	74	73		
88				82	70	71	74	73					
89	81											72	
90													
91	72	66	72	67	88	75	74	79	85	79	95	79	95
92	69	78	72	69	70	89	79	83	76	80	79	80	89
93	78	79	66	83	83	75	77	79	91	97	78	84	97
94	74	69	84	79	72	73	82	78	99	80	82	83	99
95	74	69	81	82	75	72	79	77	82	90	74	81	90
96	83	74	76	81	71	72	75	80	86	105	81	70	105
97	82	66	66	76	70	71	72	77	80	82	69	70	82
98	80	83	70	66	69	71	73	77	108	80	76	85	108
99	75	74	79	83	69	70	76	76	75	95	81	67	95
00	80	77	71	74	69	67	71	85	82	102	73	81	102
01	75	73	78	75	71	75	77	79	80	86	98	73	98
02	74	78	77	69	92	71	79	80	97	95	74	76	97
03	80	78	79	88	72	71	84	82	91	85	76	76	91
04	78	75	75	74	70	71	74	77	74	79	80	76	80
05	74	76	70	72		73	77		95	79	83	71	
06	79	77	73	79	73	69	71	77		89	72	67	
07	71	78	71	73	72	75	80	86	78	75	71	78	86
08	63	73	66	78	77	80	73	79	87	85	69	75	87
09	70	82	69	78	70	77	85	79	81	87	96	75	96
10	81	72	69	66	67	69	74	73	107	81	84	74	107
11		80	79	70	71							82	
12	83	81	78	72	75						84		
13				72		82		77					
14		69	83	73	91	91	78	80	95	76	80	89	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82

YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45											92 29		MAX TEMP DAYS
46	71 29	68 27											MAX TEMP DAYS
47	73 22	72 23	82 30									82 30	MAX TEMP DAYS
48											78 22		MAX TEMP DAYS
70					78 26			82 21					MAX TEMP DAYS
71									81 28				MAX TEMP DAYS
76	86 30					78 11	0	75 14	77 27	83 30	99 29		MAX TEMP DAYS
77						73 27	82 30	79 19	80 22	80 28		80 25	MAX TEMP DAYS
78	75 29	81 27	93 30		83 28		79 29		103 27	90 29	75 28	74 26	MAX TEMP DAYS
79	70 30												MAX TEMP DAYS
80											80 29	87 29	MAX TEMP DAYS
81					75 29	94 26			81 29				MAX TEMP DAYS
82	62 4	81 13	68 15	72 10	72 24	70 6	72 19	83 18	82 7	90 25	78 9	68 16	MAX TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

53115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-92
YEARS

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				34		54		60	51	47		33	
46	28		41	48	48								
47				45	52		55		55	48	38		
48				39	46	51	52	58					
49	29												
55												36	
56	36	35	36	43	46	51	60	56	55	43	36	31	31
57	38	40	37	42	49	55	59	56	54	49	37	37	37
58	38	42	39	44	50	55	60	63	55	51	41	35	35
59	40	39	45	51	49	57	63	58	61	48	45	39	39
60	36	38	44	47	50	57	57	61	56	50	43	33	33
61	38	41	46	47	51	54	58	64	54	49	40	40	34
62	38	39	37	49	47	54	58	60	56	51	44	38	37
63	27	46	42	44	50	53	58	60	62	53	45	38	27
64	38	38	40	44	47	51	55	60	55	50	36	37	36
65	18	37	43	43	49	51	57	62	52	50	46	41	37
66	37	38	35	44	51	53	59	63	52	49	42	36	35
67	36	39	41	42	44	48	59	62	61	50	48	37	36
68	36	44	43	45	47	54	53	61	55	49	41	33	33
69	39	43	42	50	53	57	55	63	60	53	50	42	39
70	40	44	44	45		53	60		51	42	42	38	
71	24	36	33	41	46	46	54	56		35	39	33	
72	29	43	46	46	52	55	60	58	58	41	45	41	29
73	41	47		48	52	55	55	57	54	47	41	37	
74	39	37	40	44	54	54	59	62	61	56	45	33	33
75	39	33	40	46	48		55	58	60		38	36	
76		43	39	41	52								
77	39	36	40	42	50								
78				48									
79		39	38	46	48	51	55	59	57			40	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

EXTREME VALUES

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-47, 55-82

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

3315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

43-44, 55-82
YEARS

YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45							58 70				78 79		MIN TEMP DAYS
46		32 27											MIN TEMP DAYS
47	27 22	41 23	41 29									30 30	MIN TEMP DAYS
55											40 22		MIN TEMP DAYS
70					51 25			51 18					MIN TEMP DAYS
71									51 28				MIN TEMP DAYS
73			43 30										MIN TEMP DAYS
75						54 28				48 30			MIN TEMP DAYS
76	32 28					55 7		58 14	61 25	46 30	35 29	40 29	MIN TEMP DAYS
77						54 25	54 23	60 19	56 23	54 24	44 27	47 25	MIN TEMP DAYS
78	40 29	43 27	48 30		49 28	56 28	54 27	53 30	52 26	54 28	44 28	30 26	MIN TEMP DAYS
79	35 30									55 15	39 23		MIN TEMP DAYS
80		45 25										42 29	MIN TEMP DAYS
81					52 28	59 26			58 28				MIN TEMP DAYS
82	50 1	45 17	45 15	45 10	53 24	57 8	57 17	62 18	66 7	52 25	51 9	40 16	MIN TEMP DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

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PSYCHROMETRIC SUMMARY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JAN

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
71													.1					1	1		
72														.1				3	3		
73									.1					.1				2	2		
74									.2			.3	.1					8	8		
75							.1	.1	.3	.3	.1	.1						7	7		
76						.1	.1	.3	.3	.1	.3							12	12		
77					.1	.1	.1	.5	.4	.1	.1	.1						14	14		
78		.1		.1	.1	.1	.5	.4	.1	.1	.1	.1						30	30		
79		.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						78	78		
80		.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						135	135	5	7
81	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						200	200	28	13
82	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						231	231	66	30
83	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						197	197	124	63
84	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						149	149	229	106
85	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						116	116	235	122
86	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						87	87	173	159
87	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						69	69	144	133
88	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						36	36	107	151
89	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						31	31	63	127
90	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						25	25	48	116
91	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						22	22	47	114
92	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						6	6	32	65
93	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						1	1	22	46
94	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						1	1	17	43
95	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1						2	2	1	34
96	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									17
97	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									21
98	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									24
99	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									12
100	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									4
101	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									4
102	.1	.1	.1	.1	.1	.1	.5	.4	.1	.1	.1	.1									1
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total				
Dry Bulb																					
Wet Bulb																					
Dew Point																					

NAVWEASERVCOM

1474 2097-54321 4

382.

MONTH

HOURS (L.S.T.)

[illegible]

PSYCHROMETRIC SUMMARY

STATION 7113 IMPERIAL BEACH, CALIFORNIA

73-82

FEB

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30		≥31	Dry Bulb	Wet Bulb
7 / 75												.2		.1				3	3	
7 / 77												.1	.1	.2				4	4	
7 / 75										.3	.2	.1	.1					9	9	
7 / 73									.2	.5	.2		.1					11	11	
7 / 71					.7		.2	.1	.2		.2	.2						12	12	
7 / 69					.3	.3	.2	.3	.2		.1							19	19	
6 / 67			.1	.3	.4	.4	.5	.2	.2	.3	.2							37	37	
6 / 65			.2	1.6	1.0	1.1	.5	.3	.5	.3								61	61	
6 / 63		.7	1.1	1.9	2.0	.9	.6	.3	.1	.2								112	112	6
6 / 61		1.7	2.4	5.3	2.9	.8	.6	.2	.3	.1								195	195	60
6 / 59	.2	3.0	1.7	4.9	1.8	1.8	.5	.1	.1	.2								242	243	86
6 / 57	.2	2.9	5.1	2.9	1.8	.3	.2	.2	.1									180	180	162
5 / 55	.6	3.6	3.3	1.7	.5	.2		.1	.2									134	134	294
5 / 53	1.0	2.9	1.4	1.1	.6			.1										99	99	239
5 / 51	.6	1.6	1.5	.3	.2		.2											57	57	156
5 / 49	.2	1.3	.9	.5	.2	.2	.1											68	68	130
5 / 47	.2	1.3	.7	.4	.1	.1												35	35	76
5 / 45		.3	.4	.1	.3	.2												22	22	55
5 / 43	.2	.3	.1	.4	.2													14	14	35
5 / 41		.4	.1	.3														10	10	20
5 / 39		.2	.1		.7													6	6	15
5 / 37		.1																1	1	13
5 / 35																				7
5 / 33																				22
5 / 31																			2	11
5 / 29																				10
5 / 27																				12
5 / 25																				6
5 / 23																				5
5 / 21																				10
5 / 19																				7
5 / 17																				5
5 / 15																				1
5 / 13																				1
Element (X)	ΣX²		ΣX		X̄		σ _X		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total			
Dry Bulb																				
Wet Bulb																				
Dew Point																				

NAVWEASERVCOM

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13-#2

FEA
MONTH

PAGE 2
MOORE (LST)

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

115 IMPERIAL BEACH, CALIFORNIA

73-82

MAR

PAGE 1

HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point					
80 / 80													.1		.1	.1		4	4						
79 / 81															.1			1	1						
78 / 79										.1								1	1						
77 / 77										.1	.1		.1					3	3						
76 / 75														.1				1	1						
75 / 73								.1	.2	.1			.1					7	7						
74 / 71							.3	.2	.1	.1	.1	.1	.1					4	4						
73 / 69					.1	.2	.1	.2	.1	.2	.1							22	22						
72 / 67				.1	.2	.2	.2	.1		.1								38	38						
71 / 65			.1	1.0	1.2	1.0	.2	.2			.1							66	66						
70 / 63		.1	.2	3.2	3.2	1.6	.1	.2	.2	.1								143	143						
69 / 61		.2	1.2	5.3	5.2	2.2	.2	.1		.1								253	253		13				
68 / 59	.1	2.0	4.2	5.2	3.7	1.9	1.0	.3	.1									291	291		79				
67 / 57	.1	1.2	3.2	3.7	1.9	.2	.3	.1										211	211		192				
66 / 55	.1	2.4	4.4	2.9	1.6	.5		.1										180	180		272				
65 / 53	.2	2.2	3.9	1.6	.5	.4		.1										127	127		332				
64 / 51		1.9	1.6	.7	.3	.1												70	70		251				
63 / 49		.7	1.6	.3														36	36		169				
62 / 47	.1	.7	.7	.2	.1		.1											28	28		99				
61 / 45		.1	.2	.2		.1												10	10		60				
60 / 43	.1	.3	.2		.1													11	11		22				
59 / 41	.1	.1	.2															8	8		17				
58 / 39				.1	.1													2	2		8				
57 / 37																					1				
56 / 35																									
55 / 33																									
54 / 31																									
53 / 29																									
52 / 27																									
51 / 25																									
50 / 23																									
49 / 21																									
48 / 19																									
47 / 17																									
Element (X)	ΣX^2		ΣX		Σ		σ_X		No. Obs.		Mean No. of Hours with Temperature												Total		
Rel. Hum.											≤ 6 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total		
Dry Bulb																									
Wet Bulb																									
Dew Point																									

NAWWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	IMPERIAL BEACH, CALIFORNIA	73-82	YEARS	MONTH
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PAGE 2

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NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

APR SOUTH

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb		Dew Point		
71											.1								1	1			
72										.1		.1							2	2			
73											.1	.1	.1						5	5			
74								.1	.1	.1	.1	.1	.1	.1					9	9			
75				.1	.1	.2					.1	.2	.1						11	11			
76				.3	.3	.3	.1	.4											24	24			
77				1.7	2.4	1.5	.4	.1	.1			.1							98	98			
78			.1	2.1	1.9	2.7	.9						.1						146	146	2		
79		.1	1.0	4.9	5.0	2.9	.7		.1	.1									221	221	11		
80		.2	1.5	5.3	6.2	2.0	.2	.2											246	246	47	7	
81		1.4	4.1	5.8	4.0	1.4	.1												262	262	125	23	
82		1.1	4.3	5.0	1.3	.5	.1		.1										217	217	238	60	
83		1.3	4.2	3.2	1.5		.1												152	152	329	112	
84		.9	1.4	1.2	.5														60	60	346	195	
85		.4	.9	.3	.1														24	24	214	246	
86		.1	.1	.2															9	9	105	259	
87			.5																3	3	57	227	
88			.1																1	1	10	155	
89																					7	84	
90																						61	
91																						32	
92																						14	
93																						9	
94																						2	
95																						4	
96																						2	
97																						3	
98																						1	
99																						7	
100																						1	
TOTAL		6.4	19.4	30.7	25.4	11.5	2.8	.8	.4	.3	.5	.4	.1						1491	1491	1491	1491	
Element (X)	ΣX ²		ΣX		Σ		σ _x		No. Obs.		Mean No. of Hours with Temperature										Total		
Rel. Hum.	6947979		100067		67.1		12.374		1491		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total		720.7				
Dry Bulb	5335788		90632		60.8		4.983		1491				72.4	8.2			720.7		720.7				
Wet Bulb	45326		8132		59.5		3.477		1491								720.7		720.7				
Dew Point	3657085		73851		69.3		3.094		1491				6.1				720.7		720.7				

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PSYCHROMETRIC SUMMARY

IMPERIAL BEACH, CALIFORNIA

1952

MAY

STATION

STATION NAME

YEARS

SOUTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point			
70-75												.1						1	1				
71-76												.1						1	1				
72-77									.1	.1	.1							2	2				
73-78						.2	.1			.1				.1				6	6				
74-79					.1	.3	.1	.1	.1	.3								14	14				
75-80			.1		.6	.6	.5											25	25				
76-81			.1	.6	2.1	1.0	.2		.1									59	59				
77-82		.1	.6	3.1	3.0	4.2	.6	.1										163	163	1			
78-83		.1	1.2	3.5	7.7	2.3	.5											253	253	12			
79-84	.1	.6	4.4	6.9	9.5	1.4	.1	.1										255	255	44			
80-85		2.0	5.7	7.7	2.3	.3												258	258	129			
81-86		3.6	6.6	4.4	.3	.1												224	224	284			
82-87		2.4	3.2	1.5	.3													144	144	938			
83-88		.3	.5	.4	.1													71	21	324			
84-89		.1	.3															6	6	145			
85-90																				52			
86-91			.1															1	1	14			
87-92																				101			
88-93																				46			
89-94																				15			
90-95																				4			
91-96																				4			
92-97																				1			
93-98	.1	.2	23.3	331.0	21.4	16.4	2.2	.3	.6	.9	.1	.1	.1					1446	1446	1446			
94-99																		1446		1446			
95-100																							
96-101																							
97-102																							
98-103																							
99-104																							
100-105																							
Element (X)	Σx²		Σx		X		σx		No. Obs.		Mean No. of Hours with Temperature												
Ref. Num.	7320919		101579		70.2		11.32		1446		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb	5300918		91398		63.2		9.065		1446				146.1	16.5	1.0		740.6						
Wet Bulb	4769959		82943		57.4		2.467		1446				.5				740.0						
Dew Point	4071663		74521		52.9		3.923		1446				.5				799.0						

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PSYCHROMETRIC SUMMARY

115	1MB-1AL REACH, CALIFORNIA	73-92	JUN
STATION	STATION NAME	YEARS	MONTH
			PAGE 1
			HOURS (L.S.T.)

[illegible]

NA VWEASERVCOM

PAGE 1
HOURS (L S T)

[illegible]

PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA DATE: 12-12 MONTH: AUG

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point				
80						.1												1	1					
79					.1	.1	.1											4	4					
78				.1	.4	.4	.3											17	17					
77				.3	1.2	.7	.1											37	37					
76				.3	3.4	1.7	.6											125	125	1				
75				.3	5.1	3.1	.5											237	237	2				
74		.1	2.1	6.4	3.9	1.7												210	210	17	1			
73		.7	4.7	8.8	3.4	.5												245	245	28	5			
72	.1	1.9	4.9	4.3	1.4	.1												257	257	200	62			
71		.7	4.7	3.6	.1													201	201	362	157			
70	.1	1.7	3.4	1.6														120	120	475	273			
69	.1	2.2	.3															47	47	231	393			
68	.1	1.1	.1															17	17	127	297			
67		.1																4	4	34	201			
66																					117			
65																					18			
64	.1	14.6	24.0	30.4	20.9	7.0	1.5											1522	1522	1522	1522			
63																								
62																								
61																								
60																								
59																								
58																								
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5																								
4																								
3																								
2																								
1																								
0																								
Sum																								
Mean																								
Std. Dev.																								
Rel. Hum.	504.47	114.54	75.4	10.71	1522	≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≤93 F	Total												
Dry Bulb	3734.7	10370.1	69.1	4.74	1522			563.5	279.2	5.4		740.7												
Wet Bulb	503.3	1077.3	4.2	2.21	1522			105.2	1.5															
Dew Point	56727.5	92959	61.1	3.152	1522			23.2				740.7												

PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA STATION NAME: 11-72 YEARS: 1971 MONTH: 11

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb		Dew Point		
67																		.1	1	1			
68																		.1	1	1			
69														.1					1	1			
70													.1	.1					7	7			
71											.1	.1	.1	.1					4	4			
72							.1	.1	.1	.1	.2								18	18			
73						.1	.1	.1	.1	.1	.1		.1						18	18			
74					.4	.4	.2	.1	.1	.1	.1		.1	.1	.1				22	22			
75				.1	1.7	.4	.1	.1	.1	.1	.1		.1	.1		.1			23	23			
76			.1	1.2	2.3	7.	.4	.1											86	86			
77			.1	1.1	4.3	2.5	.4		.1										166	166			
78		.1	1.3	5.3	3.7	.2	.1	.1	.1										189	189	76	1	
79		.1	1.1	4.7	3.7	.2	.1	.1	.1	.1									208	209	76	13	
80	.1	1.1	1.	4.9	2.2	.4	.1	.1		.1									217	217	180	58	
81	.1	1.1	1.1	4.9	.6	.1			.1		.1								191	191	240	105	
82	.1	1.1	1.1	7.5	.4	.1	.1	.1	.1	.1									165	165	301	162	
83	.1	1.1	1.1	.3					.1										68	68	282	284	
84		.1	.1	.1															15	15	174	254	
85		.1	.1																8	8	25	254	
86		.1																	1	1	24	154	
87																					7	25	
88																						3.	
89																						11	
90																						7	
91																						6	
92																						7	
93																						1	
94																						1	
95																						1	
96																						1	
97																						1	
98																						1	
99																						1	
100																						1	
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature										Total		
Rel. Hum.											≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F					Total		
Dry Bulb																							
Wet Bulb																							
Dew Point																							

PSYCHROMETRIC SUMMARY



1400' 2nd BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

254

MONTY

PAGE 4

HOURS (L & T)

[illegible]

PSYCHROMETRIC SUMMARY

STATION THE LAL LACH, CALIF 4012 STATION NAME 17-0 YEARS 007 MONTH 007

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point
70									.1	.1	.1		.1	.1				1	1	
71											.1	.1	.2	.2	.1			4	4	
72							.1	.1	.2	.1	.2	.1	.2	.1				10	10	
73								.1	.1	.1	.1	.1	.1					14	13	
74									.1	.1	.1	.1	.1					9	9	
75				.1	.1	.2	.1	.1	.1	.1	.1	.2	.1					21	23	
76			.1	1.7	1.7	1.0	.5	.1	.2	.2	.1							75	75	
77			.1	2.5	1.3	1.5	.4	.2	.1	.1	.1	.1						132	132	
78		.1	1.4	4.8	3.0	1.7	.4	.1	.1	.1								173	173	
79		.1	1.2	4.8	3.2	1.2	.3	.1		.2	.1							195	195	
80		1.7	6.4	4.6	2.1	.5			.1		.1							212	212	
81		1.5	5.5	3.7	1.7	.5		.1	.1	.1								227	227	
82	.1	1.4	3.5	1.9	.4	.7	.1	.1	.1									151	151	
83	.1	2.3	2.6	1.6	.3	.1	.1	.3	.1									109	109	
84	.1	1.4	1.2	.7	.7		.7	.1										60	60	
85	.1	.1	.1	.1	.1		.3	.1										34	34	
86		.1	.1	.2	.1	.1	.1	.1										10	10	
87	.1	.1	.1	.1	.1													11	11	
88																		1	1	
89																				
90																				
91																				
92																				
93																				
94																				
95																				
96																				
97																				
98																				
99																				
100																				
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature									
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total			
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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PSYCHROMETRIC SUMMARY

STATION

2ND JAL BEACH, CALIFORNIA
STATION NAME

73-42

YEAR:

60

PAGE 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
1	1.2	1.1	1.2	1.2	1.7	2.2	2.7	1.7	1.1	1.0	.9	.6	.7	.4	.1			1450	1450	1450	

PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA

73-11

YEARS

NOV

MONTH

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point			
67																	.1	1	1				
68																	.1	1	1				
69															.1	.1		3	3				
70																.1		1	1				
71										.1				.1				2	2				
72												.1	.1	.1				3	3				
73									.1		.1	.2	.2		.1			10	10				
74							.1	.1	.1	.2	.1	.1	.1					12	13				
75								.1	.1	.2	.1	.1	.1	.1				16	16				
76								.1	.1	.2	.1	.1	.1					19	19				
77					.1	.1	.2	.1	.2	.1	.1	.1	.1					25	25				
78				.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					37	37				
79			.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					55	55				
80		.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					101	101	3			
81	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					176	176	16			
82	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					189	189	31			
83	.2	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					171	171	92			
84	.2	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					140	140	204			
85	.2	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					144	144	227			
86	.2	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					96	96	245			
87	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					76	76	155			
88	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					50	50	123			
89	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					27	27	94			
90	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					18	18	73			
91	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					16	16	60			
92	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					12	12	75			
93	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					4	4	33			
94	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1					3	3	13			
95																				5			
96																				34			
97																				36			
98																				1			
99																				17			
100																				14			
101																				17			
102																				11			
Element (X)	ΣX^2		ΣX		\bar{X}		σ_X		No. Obs.		Mean No. of Hours with Temperature										Total		
Rel. Hum.											≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

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PSYCHROMETRIC SUMMARY

STATION IMPERIAL BEACH, CALIFORNIA

71-72

YEARS

DEC

MONTH

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
71 - 72																	.1		1	1				
72 - 73																	.1		1	1				
73 - 74																.1	.1		3	3				
74 - 75														.1	.1	.1			3	3				
75 - 76										.1	.2	.1	.1	.1	.1			10	10					
76 - 77								.1	.1	.1	.1	.1	.1	.1	.2			17	17					
77 - 78						.1	.1	.2	.1	.1	.1	.1	.1					14	14					
78 - 79				.1		.1	.1	.1	.1	.1	.1	.1	.1					37	37					
79 - 80		.1		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1					56	56					
80 - 81		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1					103	103	1				
81 - 82		.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1					154	154	2	1			
82 - 83	.1	1.1	2.1	2.1	1.9	1.1	.7	.6	.1	.2		.1						147	147	24	2			
83 - 84	.1	2.1	3.1	2.7	1.9	1.1	.5	.6	.1									178	178	79	25			
84 - 85	.1	2.1	3.1	2.1	1.1	.9	.7	.5	.1	.1								171	171	165	41			
85 - 86	.1	2.1	3.1	1.9	.7	.4	.5	.2	.4	.1								123	123	195	94			
86 - 87	.1	1.1	1.7	1.2	.6	.6	.2	.5	.1									95	95	195	134			
87 - 88	.1	1.1	1.4	.6	.4	.4	.6	.2	.3									82	82	187	138			
88 - 89	.1	1.1	1.3	.4	.5	.4	.2	.1										50	66	142	153			
89 - 90	.1	.9	.4	.7	.3	.2	.1	.1										40	40	124	123			
90 - 91	.1	.2	.1	.5	.4	.4												29	29	65	102			
91 - 92	.1	.1	.1	.5	.4	.1	.2											36	36	82	70			
92 - 93	.1	.1	.2	.4	.1	.1	.1											23	23	54	65			
93 - 94		.1	.2		.1	.1												7	7	40	56			
94 - 95		.1		.1	.1													2	2	33	63			
95 - 96				.1	.1													2	2	18	25			
96 - 97			.1															1	1	6	51			
97 - 98				.1														1	1	4	44			
98 - 99																				4	25			
99 - 100																				1	31			
100 - 101																				1	33			
101 - 102																					11			
102 - 103																					23			
103 - 104																					17			
104 - 105																					12			
Element (X)	ΣX^2		ΣX		\bar{X}		σ_x		No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		≤ 93 F		Total	
Dry Bulb																								
Wet Bulb																								
Dew Point																								

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PSYCHROMETRIC SUMMARY

0000 IMPERIAL BEACH, CALIFORNIA
STATION STATION NAME

73-22

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PAGE 3

HOURS (L.S.T.)

[illegible]

PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA

73-22

YEARS

ALL
MONTH

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31		Dry Bulb	Wet Bulb	Dew Point
70																		1	1		
71																		1	1		
72																		1	1		
73																		1	1		
74																		4	4		
75																		6	6		
76																		15	15		
77																		14	14		
78																		29	29		
79																		66	66		
80																		116	116		
81																		161	161		
82																		415	415	5	
83																		785	785	24	
84																		966	966	83	9
85																		1210	1210	296	46
86																		1683	1683	647	205
87																		1936	1936	1161	638
88																		2156	2156	1622	830
89																		2022	2022	1722	1333
90																		1863	1868	2066	1607
91																		1354	1354	2231	1759
92																		893	893	2217	1713
93																		591	591	1746	1405
94																		381	381	1195	1706
95																		257	257	868	1405
96																		160	160	556	1117
97																		109	109	388	767
98																		98	98	201	555
99																		67	67	174	428
100																		24	24	108	331
101																		4	4	74	231
102																		3	3	57	177
103																		3	3	9	157
Element (X)	ΣX ²		ΣX		X̄		σ _x		No. Obs.		Mean No. of Hours with Temperature										
Rel. Hum.											≤ 0 F		≤ 32 F		≤ 67 F		≤ 73 F		≤ 80 F		Total
Dry Bulb																					
Wet Bulb																					
Dew Point																					

NAVWEASERVCOM

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73-42

ALL

PAGE 2

HOURS (L.S.T.)

[illegible]

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN S. D. TOTAL OBS	55.7 5.244 8			57.3 3	63.5 2		62.0 1	63.0 1	57.0 1		47.8 4.722 5	45.0 2	54.1 6.975 19	
04	MEAN S. D. TOTAL OBS	52.0 5.244 5	49.0 1		58.0 1	62.0 2			63.0 1	60.5 2		47.0 4.336 6	46.0 1	52.8 7.130 19	
07	MEAN S. D. TOTAL OBS	49.8 5.827 269	50.7 5.400 283	52.7 4.898 275	57.1 3.624 270	61.1 3.279 278	64.4 4.935 283	66.7 5.037 283	66.6 3.809 289	66.2 4.061 272	60.7 4.219 276	54.0 5.684 249	49.3 6.142 258	58.5 8.112 3245	
10	MEAN S. D. TOTAL OBS	60.0 5.026 284	61.0 4.814 261	61.3 4.485 292	63.1 3.938 281	65.2 3.537 278	68.0 4.407 283	70.4 4.014 285	71.3 3.278 289	71.5 4.960 272	68.8 4.279 281	66.0 6.745 264	61.9 5.749 268	65.7 6.191 3338	
13	MEAN S. D. TOTAL OBS	62.2 4.983 284	62.8 4.569 261	62.2 3.990 292	64.1 3.264 281	66.3 3.104 278	69.3 4.305 282	71.9 3.663 285	72.7 2.885 289	73.0 4.668 272	70.0 4.005 281	66.7 5.822 264	63.6 5.763 268	67.1 5.836 3337	
16	MEAN S. D. TOTAL OBS	60.6 4.210 280	61.4 3.957 254	61.1 3.917 283	63.0 3.225 269	65.0 3.185 242	68.3 4.364 258	71.1 3.712 234	71.7 3.169 258	71.5 4.481 235	68.0 3.845 245	64.6 4.711 264	61.4 4.202 267	65.4 5.702 3081	
19	MEAN S. D. TOTAL OBS	55.9 3.624 233	56.5 3.452 215	56.6 3.299 248	58.0 2.958 266	60.1 2.576 231	63.8 4.114 238	66.6 3.588 227	66.7 2.871 240	66.5 3.409 226	63.0 3.290 226	59.4 4.254 216	55.7 4.331 212	60.8 5.440 2758	
22	MEAN S. D. TOTAL OBS	55.2 3.760 106	56.3 3.519 95	56.1 3.461 131	57.2 2.936 180	59.4 2.674 135	62.2 3.231 157	64.3 3.279 153	65.9 3.241 155	65.3 3.368 142	61.9 2.972 141	57.3 4.387 141	54.6 4.544 126	60.0 5.236 1622	
ALL HOURS	MEAN S. D. TOTAL OBS	57.6 6.454 1868	58.5 6.180 1332	58.7 5.421 1821	60.8 4.459 1891	63.2 4.066 1866	66.3 5.086 1891	68.9 4.767 1868	69.5 4.280 1522	69.3 5.245 1822	68.8 5.382 1880	61.7 7.349 1409	58.2 7.305 1402	63.3 7.099 17419	

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MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115

IMPERIAL PEACH, CALIFORNIA

73-82

STATION

STATION NAME

YEARS

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
71	MEAN	50.0			50.7	59.5		60.0	62.0	56.0		45.2	43.0	50.6
	S. D.											4.207		6.518
	TOTAL OBS	8			1	2		1	1	1		5	2	19
74	MEAN	46.4	46.0		50.0	59.5			62.0	53.0		44.7	39.0	49.5
	S. D.	5.814										4.457		7.229
	TOTAL OBS	5	1		1	2			1	2		6	1	19
77	MEAN	45.7	47.1	48.9	52.2	56.4	59.9	62.8	63.1	61.7	56.2	48.1	43.8	54.1
	S. D.	6.468	5.889	4.839	3.460	2.671	3.779	3.918	3.076	3.796	5.537	5.715	6.366	8.268
	TOTAL OBS	269	263	275	270	278	283	283	289	272	276	249	258	3245
1	MEAN	52.2	53.7	54.1	55.5	58.3	61.6	64.4	65.1	64.4	61.0	55.8	51.7	58.2
	S. D.	4.829	3.914	3.382	2.895	2.545	3.548	3.392	2.665	3.262	3.716	4.245	4.595	6.001
	TOTAL OBS	284	261	292	281	278	283	285	289	272	281	264	268	3338
13	MEAN	54.6	55.7	54.9	56.4	58.9	62.1	64.7	65.6	65.2	62.4	57.7	54.8	59.5
	S. D.	4.095	3.158	3.197	3.027	2.495	3.541	3.344	2.461	2.962	3.340	3.897	4.021	5.341
	TOTAL OBS	224	261	292	281	278	282	285	289	272	281	264	268	3337
15	MEAN	54.3	55.5	54.3	55.8	58.1	61.6	64.3	65.1	64.4	61.5	57.5	54.7	58.7
	S. D.	3.934	3.027	3.291	3.060	2.436	3.630	3.324	2.583	2.965	3.071	3.906	3.821	5.209
	TOTAL OBS	280	255	283	269	242	248	234	258	235	245	264	267	3080
17	MEAN	51.7	52.6	51.9	53.3	55.7	59.4	62.2	62.9	62.0	58.8	54.4	50.9	56.3
	S. D.	4.061	3.588	3.448	2.897	2.479	3.308	3.389	2.593	2.867	3.234	3.931	4.818	5.501
	TOTAL OBS	233	215	248	244	231	238	227	240	224	224	214	212	2758
22	MEAN	51.5	52.5	52.2	53.2	55.5	58.8	61.4	62.9	61.5	58.1	52.1	49.1	56.1
	S. D.	4.973	3.989	3.034	3.209	2.756	3.019	3.118	2.662	3.208	3.945	4.722	5.881	5.842
	TOTAL OBS	104	95	131	140	135	157	153	155	142	141	141	124	1622
ALL HOURS	MEAN	51.7	53.0	52.8	54.5	57.4	60.7	63.5	64.2	63.4	59.8	54.4	51.0	57.3
	S. D.	5.700	5.023	4.190	3.478	2.861	3.717	3.633	2.922	3.555	4.512	5.651	6.277	6.457
	TOTAL OBS	1845	1331	1521	1491	1864	1491	1468	1522	1422	1450	1409	1402	17418

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MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115 IMPERIAL BEACH, CALIFORNIA

73-82

STATION	STATION NAME	YEARS
HRS.(L.S.T.)		JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. ANNUAL
01	MEAN S. D. TOTAL OBS	45.8 44.7 57.0 1 2 1 1 1 5 2 19
04	MEAN S. D. TOTAL OBS	40.6 42.0 8.849 43.0 56.0 5 1 1 2 1 2 6 1 19
07	MEAN S. D. TOTAL OBS	40.5 43.0 45.0 47.6 52.6 56.7 60.5 61.0 58.6 52.0 41.2 36.2 49.9 11.326 9.512 7.217 5.893 4.475 4.976 4.124 3.453 6.490 9.739 11.288 12.167 11.343 249 243 275 270 278 283 283 289 272 276 289 258 3245
10	MEAN S. D. TOTAL OBS	44.3 46.5 47.5 49.2 53.3 57.3 60.7 61.4 60.0 55.1 46.2 40.4 51.9 9.989 9.422 7.011 5.185 3.907 4.711 3.829 3.158 5.276 8.505 11.143 12.162 10.144 284 261 292 281 278 283 285 289 272 281 268 268 3338
11	MEAN S. D. TOTAL OBS	47.5 49.7 48.7 50.2 53.5 57.3 60.4 61.4 60.6 57.1 50.3 46.4 53.7 8.384 6.754 5.569 4.775 3.620 4.597 3.980 3.108 4.256 6.170 8.206 9.864 8.044 284 261 292 281 278 282 285 289 272 281 268 268 3337
14	MEAN S. D. TOTAL OBS	48.5 50.5 48.3 50.0 53.1 57.1 60.1 61.2 60.1 57.0 51.4 48.5 53.6 7.827 5.555 5.678 4.735 3.542 4.489 3.863 3.085 3.999 5.202 7.219 8.541 7.364 280 258 283 269 242 248 234 258 235 285 268 267 3080
15	MEAN S. D. TOTAL OBS	47.5 49.1 47.4 49.1 52.2 56.3 59.4 60.4 59.1 55.8 49.9 45.9 52.7 7.617 5.896 5.540 4.511 3.708 4.228 3.892 2.993 4.190 5.141 7.571 9.834 7.598 233 218 248 246 231 238 227 240 226 226 216 212 2758
22	MEAN S. D. TOTAL OBS	47.8 49.0 48.7 49.6 52.3 56.3 59.6 61.0 58.9 55.1 46.6 42.2 52.7 7.912 6.667 4.776 4.780 4.069 4.032 3.542 2.896 4.617 6.635 10.076 12.448 8.609 106 98 131 140 135 157 153 155 142 141 141 126 1622
ALL HOURS	MEAN S. D. TOTAL OBS	45.8 47.8 47.5 49.3 52.9 56.9 60.2 61.1 59.6 55.3 47.7 43.3 52.4 9.293 8.028 6.268 5.095 3.923 4.576 3.922 3.153 5.041 7.491 10.028 11.636 9.152 1468 1331 1521 1491 1466 1491 1464 1522 1422 1450 1409 1402 17418

NAVWEASERVCOM

RELATIVE HUMIDITY

77115

IMPERIAL BEACH, CALIFORNIA

73-92

JAN

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	31	100.0	100.0	100.0	100.0	100.0	100.0	75.0			71.0	4
	4	100.0	100.0	100.0	100.0	80.0	60.0	60.0			65.6	5
	11	100.0	99.3	96.7	91.8	64.7	74.7	64.3	41.6	19.3	73.3	269
	10	99.6	97.9	88.7	79.2	65.5	54.6	34.9	18.3	6.7	60.2	284
	13	99.6	97.5	94.0	87.0	74.3	57.7	33.5	16.9	3.9	62.0	284
	16	99.6	97.9	96.4	94.6	84.4	68.2	45.4	22.1	5.0	67.0	230
	19	100.0	99.1	97.0	96.1	93.1	84.1	66.1	40.8	15.5	75.4	233
	22	100.0	99.1	99.1	96.2	95.3	89.6	78.3	46.2	13.2	77.6	176
TOTALS		99.9	98.9	96.5	93.1	94.6	73.6	57.2	23.2	8.0	69.0	1465

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

03115 IMPERIAL BEACH, CALIFORNIA

73-42

FEB

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01											
	04	100.0	100.0	100.0	100.0	100.0	100.0	100.0			77.0	1
	07	100.0	98.8	97.5	95.1	88.5	80.7	72.4	53.9	27.6	77.6	243
	10	100.0	96.7	88.1	80.8	74.3	62.8	44.4	22.6	5.9	63.5	241
	13	99.6	98.5	95.4	90.4	82.0	66.7	38.3	18.4	3.8	65.1	241
	16	100.0	99.2	98.8	96.1	91.4	74.1	50.2	21.2	5.1	69.3	255
	19	100.0	99.5	98.6	97.7	96.3	90.2	74.9	43.3	14.4	77.7	215
	22	100.0	100.0	98.9	95.8	93.7	87.4	76.8	48.4	17.9	78.2	95
TOTALS		99.9	99.0	96.8	93.7	89.5	70.3	65.3	29.7	10.8	72.6	1331

OCEANAV-SMOS

RELATIVE HUMIDITY

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MONTH

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OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

7115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-42

PERIOD

APR
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	100.0	100.0	100.0	66.7				63.0	3
	06	100.0	100.0	100.0	100.0	100.0					57.0	1
	07	100.0	99.3	98.5	97.8	94.4	83.0	61.1	24.8	4.1	72.1	270
	10	100.0	99.3	97.5	96.1	85.8	56.9	22.8	4.3		62.0	261
	13	100.0	99.6	99.3	97.2	86.5	58.4	13.2	1.4	.4	61.5	251
	16	100.0	99.6	99.3	98.9	91.8	63.2	18.6	1.9		63.3	269
	19	100.0	100.0	99.6	98.8	97.6	88.2	64.2	21.5	.4	72.9	246
	22	100.0	100.0	100.0	98.6	98.6	90.0	73.6	36.4	7.1	76.3	140
TOTALS		100.0	99.7	99.3	98.4	94.3	63.3	31.7	11.3	1.5	66.0	1491

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

13115

IMPERIAL BEACH, CALIFORNIA

73-82

MAY

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	50.0		79.5	2
	04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		87.0	2
	07	100.0	99.6	98.9	98.2	97.1	90.3	66.2	34.5	5.0	75.1	278
	10	100.0	100.0	99.3	98.2	95.0	70.9	33.1	12.2	.7	66.6	278
	13	100.0	100.0	99.6	98.9	93.5	65.5	21.9	3.6		64.1	278
	16	100.0	100.0	100.0	97.9	96.3	75.6	31.4	6.6		66.2	242
	19	100.0	100.0	99.1	99.1	98.7	97.0	74.5	32.9		75.8	231
	22	100.0	100.0	100.0	99.3	97.8	97.0	81.5	41.5	3.7	78.0	135
TOTALS		100.0	100.0	99.6	99.0	97.1	87.0	63.6	35.2	1.2	74.0	1446

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

97115

IMPERIAL BEACH, CALIFORNIA

73-82

JUL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		47.0	1
	04											
	07	100.0	100.0	100.0	99.6	98.6	96.8	92.2	61.1	7.8	80.9	283
	10	100.0	100.0	100.0	100.0	100.0	97.2	52.3	13.0	.4	71.7	295
	13	100.0	100.0	100.0	100.0	99.3	89.5	27.0	4.6	.4	67.4	285
	16	100.0	100.0	100.0	100.0	99.6	92.7	33.8	5.6		68.5	234
	19	100.0	100.0	100.0	100.0	100.0	99.6	87.7	40.5	.9	78.0	227
	22	100.0	100.0	100.0	100.0	100.0	100.0	96.7	81.0	18.3	84.8	153
TOTALS		100.0	100.0	100.0	99.9	99.6	96.5	70.0	43.7	4.0	76.9	1468

OCEANAV-SMOS

RELATIVE HUMIDITY

106

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.0	1
	04	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.0	1
	07	100.0	100.0	100.0	100.0	99.7	98.6	88.2	64.7	17.0	82.7	289
	10	100.0	100.0	100.0	100.0	100.0	91.7	57.1	13.5		71.3	289
	13	100.0	100.0	100.0	100.0	99.3	84.4	38.8	5.2		68.0	289
	16	100.0	100.0	100.0	100.0	100.0	90.7	49.6	8.9	.8	69.8	258
	19	100.0	100.0	100.0	100.0	100.0	100.0	92.5	54.6	7.1	80.6	240
	22	100.0	100.0	100.0	100.0	100.0	100.0	96.1	67.1	25.8	84.4	155
TOTALS		100.0	100.0	100.0	100.0	99.9	95.7	77.8	51.8	31.3	80.4	1522

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

93115

IMPERIAL BEACH, CALIFORNIA

73-92

SEP

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.0	1
	04	100.0	100.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	65.0	2
	07	100.0	99.3	97.1	95.6	93.8	92.3	85.7	56.6	9.6	78.4	272
	10	100.0	98.9	97.1	95.6	93.4	82.4	51.1	16.5	1.5	68.7	272
	13	99.6	99.6	98.9	96.7	94.5	81.3	33.1	7.7	.7	66.2	272
	16	100.0	100.0	99.1	95.7	94.5	84.3	48.1	10.6	.9	68.4	235
	19	100.0	100.0	99.1	99.1	97.1	94.2	84.1	50.9	3.5	78.1	226
	22	100.0	100.0	99.3	99.3	97.9	96.5	88.7	59.9	8.5	80.5	142
TOTALS		100.0	99.7	92.6	91.5	90.2	85.1	67.6	44.0	21.8	74.8	1422

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

03115

IMPERIAL BEACH, CALIFORNIA

73-82

OCT

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01											
	04											
	07	100.0	98.9	95.7	90.9	89.5	85.1	74.6	51.4	14.1	75.9	276
	10	100.0	95.7	91.8	91.1	86.9	73.0	41.6	13.5	1.8	64.9	281
	13	100.0	96.9	96.1	94.0	90.7	78.6	37.4	8.9	.7	65.6	291
	16	100.0	99.6	97.6	96.3	93.5	84.1	51.0	19.6	2.0	69.3	245
	19	100.0	100.0	98.7	98.2	96.5	91.6	80.5	55.3	17.6	78.8	226
	22	100.0	100.0	98.6	97.2	95.0	91.5	80.1	57.4	14.2	79.8	141
TOTALS		100.0	98.9	96.4	94.6	92.0	84.0	60.9	34.4	7.2	72.4	1450

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
PERIOD

NOV
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	20.0	86.2	5
	04	100.0	100.0	100.0	100.0	100.0	100.0	83.3	50.0	33.3	84.0	6
	07	99.2	97.2	89.6	82.7	74.3	66.7	53.8	29.7	12.9	66.6	249
	10	98.9	87.5	78.8	72.0	65.9	51.9	25.4	11.4	1.9	54.9	264
	13	100.0	95.6	90.2	82.6	74.6	61.0	25.0	8.7		59.2	264
	16	100.0	98.5	94.3	91.7	85.2	74.2	42.8	15.9	.8	65.9	264
	19	99.5	99.1	97.2	91.7	88.0	83.8	65.7	38.9	12.0	73.6	216
	22	99.3	95.7	93.6	90.8	85.8	82.3	66.7	30.5	10.6	71.4	141
TOTALS		99.6	96.7	93.0	88.9	84.2	77.7	57.8	33.1	11.4	70.2	1409

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

23115

IMPERIAL BEACH, CALIFORNIA

73-82

DEC

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	100.0	100.0	100.0	100.0	100.0	50.0	50.0	50.0	84.0	2
	04	100.0	100.0	100.0	100.0						49.0	1
	07	99.2	95.3	91.9	80.6	71.7	59.7	47.7	31.8	15.1	65.5	258
	10	98.1	89.2	76.5	61.9	50.4	40.3	25.4	12.7	3.0	51.4	268
	13	98.9	95.1	89.2	78.0	67.5	52.6	28.7	11.9	1.1	57.7	268
	16	99.6	97.8	93.6	89.5	81.3	65.2	47.6	26.2	4.1	66.0	267
	19	99.5	97.6	95.3	91.5	85.4	76.4	65.6	45.3	17.9	73.5	212
	22	99.2	95.2	89.7	83.3	77.6	68.3	60.3	33.3	8.7	68.0	126
TOTALS		99.3	96.3	92.0	85.6	66.3	57.8	40.7	26.4	12.5	64.4	1402

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

3115 IMPERIAL BEACH, CALIFORNIA 73-82 ALL
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	99.9	98.9	96.5	93.1	84.6	73.6	57.2	23.2	8.0	69.0	1465
FEB		99.9	99.0	96.8	93.7	89.5	80.3	65.3	29.7	10.8	72.6	1331
MAR		100.0	99.3	98.2	96.4	90.0	75.0	50.4	22.2	4.6	69.5	1521
APR		100.0	99.7	99.3	98.4	94.3	83.3	31.7	11.3	1.5	66.0	1491
MAY		100.0	100.0	99.6	99.0	97.3	87.0	63.6	35.2	1.2	74.0	1446
JUN		100.0	99.8	99.1	98.7	97.7	89.4	60.3	30.1	4.8	73.5	1491
JUL		100.0	100.0	100.0	99.9	99.6	96.5	70.0	43.7	4.0	76.9	1468
AUG		100.0	100.0	100.0	100.0	99.9	95.7	77.8	51.8	31.3	80.4	1522
SEP		100.0	99.7	92.6	91.5	90.2	85.1	67.6	44.0	21.8	74.8	1422
OCT		100.0	98.9	96.4	94.6	92.0	84.0	60.9	34.4	7.2	72.4	1450
NOV		99.6	96.7	93.0	88.9	84.2	77.7	57.8	33.1	11.4	70.2	1409
DEC		99.3	96.3	92.0	85.6	66.8	57.8	40.7	26.4	12.5	64.4	1402
TOTALS		99.9	99.0	97.0	95.0	90.5	80.5	58.6	32.1	9.9	72.0	17418

OCEANAV-SMOS

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

STATION NAME STATION YEARS MONTH HOURS U.S.T.

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

JANUARY

ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	50.0		50.0							2	.1
77 TO 81			50.0	25.0				25.0		4	.3
72 TO 76	20.8	8.2	8.3	20.8		4.2	4.2	33.3	4.2	24	1.6
67 TO 71	4.3	6.8	14.9	4.3	12.8	12.8	19.1	21.3	4.3	47	3.2
62 TO 66	4.9	2.0	8.5	2.3	14.3	13.0	28.3	22.5	4.2	307	21.0
57 TO 61	7.3	3.6	10.5	4.7	11.4	11.8	21.2	16.9	12.7	534	36.5
52 TO 56	5.1	4.5	24.5	10.2	9.6	6.4	11.1	11.1	17.5	314	21.4
47 TO 51	5.5	6.9	41.4	17.2	4.8	1.4	4.8	2.1	15.9	145	9.9
42 TO 46	4.3	17.1	65.7	7.1	1.4		1.4		2.9	70	4.8
37 TO 41		33.3	60.0						6.7	15	1.0
32 TO 36		33.3	66.7							3	.2
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.1	4.8	19.7	7.0	10.2	9.0	17.3	14.7	11.3	1465	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

2315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

FEBRUARY
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81			28.6	42.9			14.3	14.3		7	.5
72 TO 76	19.2	3.6	19.2	23.1			11.5	19.2	3.6	26	2.0
67 TO 71	8.1	8.1	8.1	12.9	3.2	6.5	24.2	24.2	4.8	67	4.7
62 TO 66	5.0	2.8	6.0	2.5	13.1	14.2	25.5	25.5	5.3	287	21.2
57 TO 61	8.7	3.6	7.6	4.5	12.1	7.2	23.4	24.2	6.7	529	39.7
52 TO 56	6.9	4.2	20.8	5.0	7.7	6.7	13.5	15.4	20.4	260	19.5
47 TO 51	.9	16.8	49.6	8.0	2.7	3.5	1.8	1.8	15.0	113	8.5
42 TO 46		18.2	70.5	2.3					9.1	44	3.3
37 TO 41		22.2	55.6						22.2	9	.7
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.7	5.5	16.1	5.3	9.5	7.7	18.9	19.7	10.6	1332	100.0

NAYWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

STATION

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

MARCH

ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86			40.0	40.0			20.0			5	.3
77 TO 81		25.0	50.0			25.0				4	.3
72 TO 76	13.3	6.7	13.3	13.3		13.3	13.3	26.7		15	1.0
67 TO 71	6.2		3.3		9.8	16.4	37.7	24.6		61	4.0
62 TO 66	5.7	.3	2.8	1.9	9.7	18.9	38.4	19.8	2.5	313	20.9
57 TO 61	5.3	1.2	2.9	1.9	10.7	14.9	35.0	23.2	9.0	646	42.5
52 TO 56	4.6	3.5	17.6	6.3	8.4	8.6	22.5	14.1	14.4	347	22.8
47 TO 51	2.1	9.6	46.8	11.7	6.4		9.6	6.4	7.4	94	6.2
42 TO 46		10.7	64.3	10.7	3.6		7.1	3.6		29	1.8
37 TO 41		33.3	66.7							1	.2
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.1	2.4	10.6	3.8	9.3	13.1	30.4	18.9	6.4	1521	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

0115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

APRIL
MONTH

ALL
HOURS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	3.3							56.7		3	.2
72 TO 76	10.5	15.8	10.5			5.3	26.3	26.3	5.3	12	1.3
67 TO 71			2.3		5.5	14.1	54.7	23.4		124	8.6
62 TO 66	1.4	.4	1.4	.4	3.5	16.3	47.6	27.0	1.9	485	32.5
57 TO 61	1.8	2.3	8.1	2.8	6.9	14.5	30.8	22.9	9.9	607	40.7
52 TO 56	2.7	1.3	22.7	5.8	7.1	8.9	19.1	19.6	12.9	275	15.1
47 TO 51		4.3	43.5	17.4	8.7		8.7	4.3	13.0	23	1.5
42 TO 46			100.0							1	.1
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.8	1.5	8.2	2.4	5.6	13.8	36.1	23.6	6.8	1491	100.0

NAYWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION: 0115 IMPERIAL BEACH, CALIFORNIA STATION NAME: JANUARY 1973-DECEMBER 1982 YEARS: MAY MONTH: ALL HOURS: U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	100.0									1	.1
77 TO 81			9.1			9.1	18.2	54.5	9.1	11	.8
72 TO 76	10.8		5.4		2.7	27.0	37.8	16.2		37	2.6
67 TO 71	.4	.4	1.7		1.3	25.5	53.2	16.6	.9	235	16.3
62 TO 66	.8	.6	2.4	.3	5.1	25.5	47.0	14.6	3.4	638	44.1
57 TO 61	1.6	1.2	4.2	3.4	10.3	17.9	32.9	18.5	9.9	496	34.3
52 TO 56	7.4		14.6	3.7	11.1	11.1	14.8	11.1	25.9	27	1.9
47 TO 51									100.0	1	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.5	.8	3.3	1.4	6.4	22.5	42.0	16.5	5.7	1446	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

JUNE
MONTH

ALL
HOURS LIST

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96								100.0		1	.1
87 TO 91						20.0	20.0	40.0	20.0	5	.3
82 TO 86	28.6		14.3				14.3	14.3	28.6	7	.5
77 TO 81	5.9		8.8			11.8	47.1	23.5	2.9	30	2.3
72 TO 76	3.0	1.2	2.4		4.8	14.5	47.6	21.1	5.4	166	11.1
67 TO 71	2.2	.4	.7	.7	3.6	21.1	48.1	19.3	3.8	445	29.8
62 TO 66	3.1	1.7	1.5	1.2	5.3	19.5	41.8	18.0	8.0	589	39.5
57 TO 61	1.6	1.6		.8	9.9	16.9	28.0	23.5	17.7	243	16.3
52 TO 56									100.0	1	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.7	1.2	1.3	.8	5.3	18.7	41.9	19.9	8.1	1491	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

3115
STATION

IMPECIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

JULY
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		25.0							75.0	4	.3
82 TO 86						40.0	60.0			10	.7
77 TO 81	1.3		1.3		5.2	20.0	50.0	16.9	3.9	77	5.2
72 TO 76	.3	1.5	.6		2.7	15.8	60.9	16.4	1.8	330	22.5
67 TO 71	.5	.5	.4		4.9	18.6	51.5	18.6	5.0	555	37.8
62 TO 66	.7	1.1	1.1	.2	8.2	21.3	32.7	23.8	10.9	641	30.0
57 TO 61	2.0	2.0		2.0	10.2	22.4	16.3	16.3	28.6	49	3.3
52 TO 56								50.0	50.0	2	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.6	1.0	.7	.1	5.5	19.1	46.6	19.3	7.0	1468	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION
3115

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
JANUARY 1973-DECEMBER 1982

MONTH
AUGUST

HOURS U.S.T.
ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86		100.0								1	.1
77 TO 81		1.7	1.7		6.9	32.8	51.7		5.2	58	3.0
72 TO 76	.6	.4		.2	3.0	17.1	51.7	23.9	3.0	468	30.7
67 TO 71	1.3	1.2	.7	1.2	3.6	15.2	40.1	28.7	8.1	606	39.6
62 TO 66	5.7	2.6	4.6	1.1	6.0	13.2	25.9	28.2	12.6	348	22.9
57 TO 61	7.3	2.4	14.6	4.9	12.2	9.0	7.3	12.2	29.3	41	2.7
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.2	1.4	1.8	.9	4.3	15.8	39.9	25.6	8.0	1522	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

STATION
STILL

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
JANUARY 1973-DECEMBER 1982

MONTH
SEPTEMBER

HOURS (L.S.T.)
ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111				100.0						1	.1
102 TO 106											
97 TO 101			100.0							1	.1
92 TO 96								100.0		1	.1
87 TO 91	25.0					37.5		37.5		8	.6
82 TO 86	9.5		9.5	4.0		19.0	28.6	28.6		21	1.5
77 TO 81	3.9		5.3	1.3	2.6	11.8	51.3	22.4	1.3	76	5.3
72 TO 76	1.2	.6	1.5	.3	2.0	11.7	90.1	28.3	4.4	343	24.1
67 TO 71	2.9	2.1	2.1	.8	5.9	16.6	33.3	24.1	12.2	523	36.8
62 TO 66	5.3	3.1	7.6	1.8	9.9	9.9	24.9	21.4	16.0	393	27.6
57 TO 61		5.6	20.4	7.4	16.7	18.5	3.7	5.6	22.2	54	3.8
52 TO 56				100.0						1	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	3.3	2.0	4.5	1.4	6.2	13.5	34.5	23.7	10.9	1422	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

OCTOBER
MONTH

ALL
HOURS LIST

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91			100.0							1	.1
82 TO 86						14.3	14.3	71.4		7	.5
77 TO 81	20.7		10.3			10.3	17.2	37.9	3.4	29	2.0
72 TO 76	3.7	1.2	1.2	.6		13.4	19.6	38.4	1.8	164	11.3
67 TO 71	2.3	.9	1.8	.2	3.0	13.0	38.7	34.0	3.2	434	29.9
62 TO 66	4.9	2.5	6.8	2.6	5.3	12.1	23.2	21.5	21.1	530	36.6
57 TO 61	4.4	5.2	26.6	7.9	6.1	3.9	4.8	13.1	27.9	229	15.8
52 TO 56	4.0	22.0	50.0	6.0	2.0			2.0	14.0	50	3.4
47 TO 51		16.7	83.3							6	.4
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	4.1	3.0	9.7	2.6	3.9	11.3	28.7	25.9	13.9	1450	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

03114
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

NOVEMBER
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101			100.0							1	.1
92 TO 96				100.0						1	.1
87 TO 91			25.0	75.0						4	.3
82 TO 86		10.0	20.0	10.0			10.0	40.0	10.0	10	.7
77 TO 81	32.4	2.9	14.7			5.9	14.7	20.6	8.8	34	2.4
72 TO 76	19.4	1.6	9.7		1.6	11.3	24.2	29.0	3.2	62	4.4
67 TO 71	6.3	2.9	2.9	1.1	2.9	20.0	34.9	26.9	2.3	175	12.4
62 TO 66	9.3	2.9	6.6	2.9	5.3	14.2	24.1	26.5	6.2	452	32.1
57 TO 61	6.3	4.1	18.8	5.2	6.0	9.0	14.4	13.6	22.0	368	26.1
52 TO 56	5.0	13.9	34.2	8.9	4.0	4.0	6.4	6.9	16.8	202	14.3
47 TO 51	1.1	13.8	47.7	18.4	1.5	1.5	4.6	1.5	10.8	65	4.6
42 TO 46		10.3	75.9	6.9	3.4				3.4	29	2.1
37 TO 41		66.7	33.3							6	.4
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.9	5.7	17.2	4.9	4.9	10.6	10.3	18.3	12.3	1469	100.0

NAVWEASERVCOM

1028

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

93115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

DECEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91					100.0					1	.1
82 TO 86											
77 TO 81	28.6		28.6	28.6	14.3					7	.5
72 TO 76	12.5	9.4	18.0	6.3		12.5	6.3	31.3	3.1	32	2.3
67 TO 71	11.8	3.9	9.0	5.9		21.6	19.6	21.6	5.9	102	7.3
62 TO 66	8.1	2.1	12.6	1.0	7.2	11.4	26.9	23.1	6.9	334	23.8
57 TO 61	7.4	4.3	14.1	1.9	8.1	11.9	17.7	16.0	18.6	419	29.9
52 TO 56	4.5	7.9	27.8	7.9	4.5	3.8	7.9	9.8	25.9	266	19.0
47 TO 51	4.3	12.9	43.6	10.0	2.9		.7	2.1	23.6	140	10.0
42 TO 46		25.6	59.8	2.4	2.4	1.2			8.5	82	5.8
37 TO 41		20.0	73.3	6.7						15	1.1
32 TO 36			66.7						33.3	3	.2
27 TO 31			100.0							1	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.7	6.8	22.6	4.4	5.6	8.9	14.8	14.6	15.3	1402	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

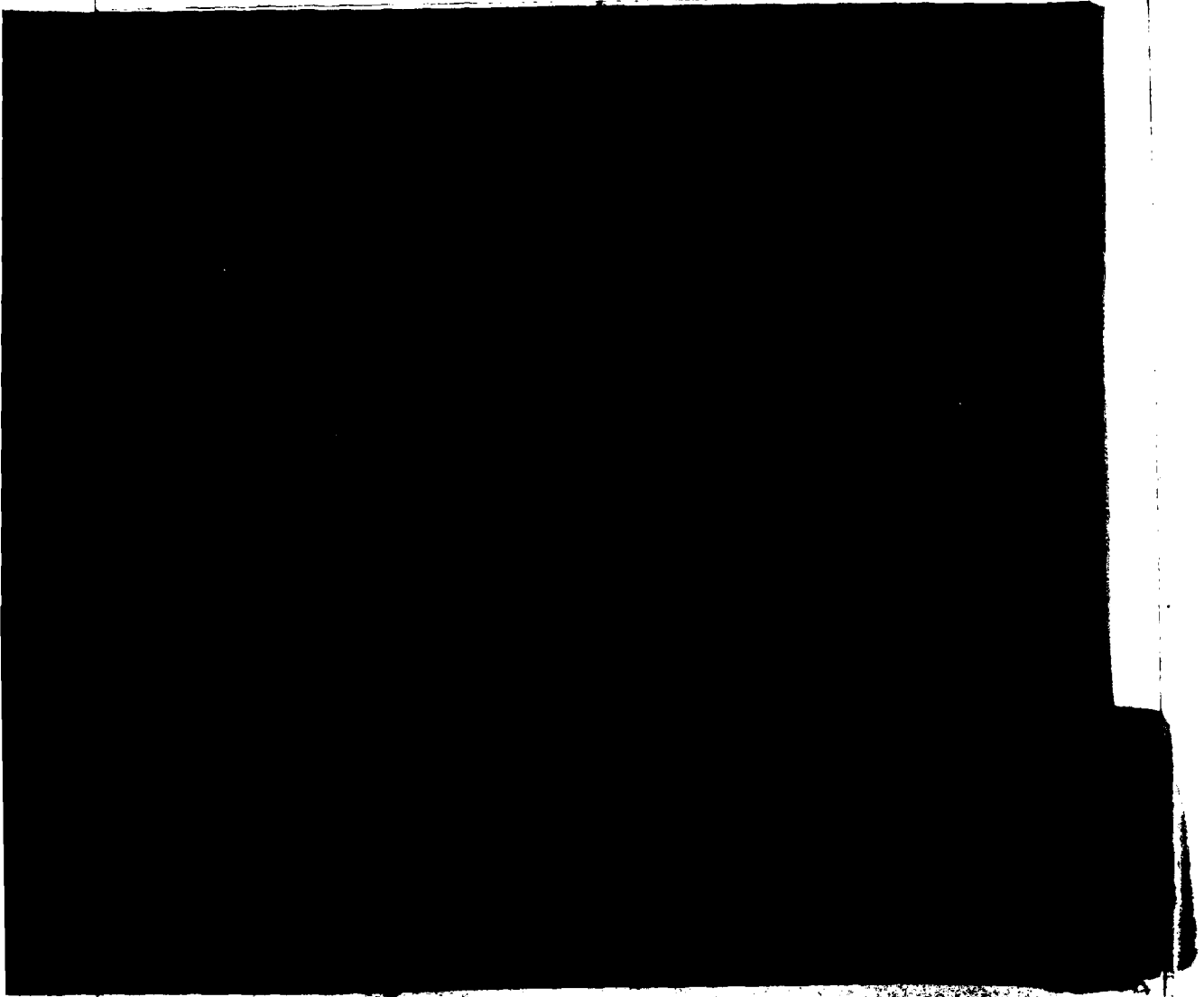
ALL
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111				100.0						1	.0
102 TO 106											
97 TO 101			100.0							2	.0
92 TO 96				33.3				66.7		3	.0
87 TO 91	6.7	4.3	8.7	13.0	4.3	17.4	4.3	21.7	17.4	23	.1
82 TO 86	9.4	3.1	12.5	6.3		14.1	25.0	25.0	4.7	64	.4
77 TO 81	7.6	.9	7.6	2.0	3.2	16.0	39.8	19.2	3.8	344	2.0
72 TO 76	3.1	1.4	2.3	1.1	2.4	14.4	47.5	24.7	3.1	1686	9.7
67 TO 71	2.4	1.3	1.9	1.0	4.1	17.7	41.7	24.3	5.6	3373	19.4
62 TO 66	4.2	1.8	4.7	1.5	7.2	16.5	33.5	22.1	8.6	5117	29.4
57 TO 61	5.0	2.8	9.3	3.5	9.5	12.6	24.5	19.4	13.3	4215	24.2
52 TO 56	4.8	5.9	24.5	7.3	7.0	6.3	13.5	12.6	18.1	1695	9.7
47 TO 51	3.2	11.4	45.5	12.4	3.9	1.2	4.1	2.7	15.5	987	5.4
42 TO 46	1.2	18.5	65.7	5.1	2.0	.4	1.2	.4	5.5	254	1.5
37 TO 41		31.3	60.4	2.1					6.3	48	.3
32 TO 36		16.7	66.7						16.7	6	.0
27 TO 31			100.0							1	.0
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-16 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	4.0	3.0	9.5	2.9	6.3	13.8	30.8	20.1	9.6	17419	100.0

NAVWEASERVCOM



NMCH, Federal Building
Asheville, N. C.

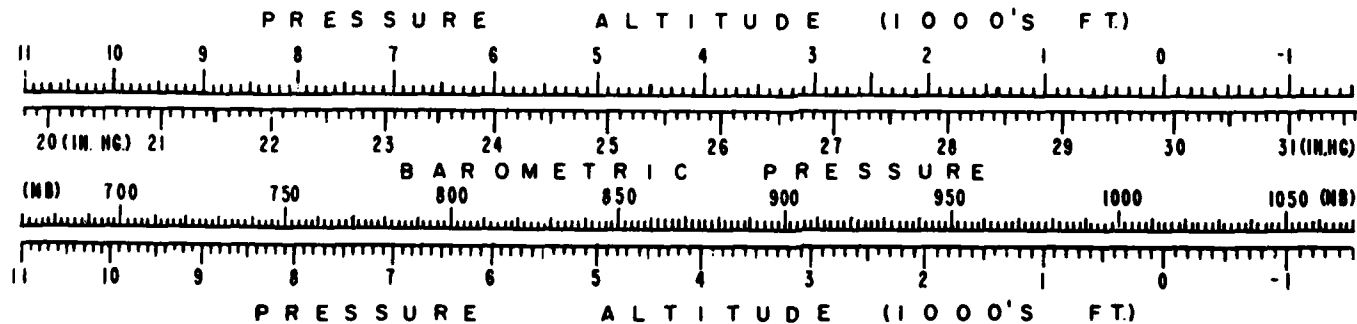
PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

73115 IMPERIAL BEACH, CALIFORNIA

73-82

STATION		STATION NAME												YEARS
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS	1020.7 4.634 8			1018.1 3 2	1013.9 2		1013.3 1	1012.8 1	1011.6 1		1020.1 3.266 5	1019.7 2	1018.0 4.174 12
04	MEAN S. D. TOTAL OBS	1020.8 4.158 5	1017.9 1		1018.4 1	1013.2 2			1013.3 1	1011.9 2		1019.5 2.983 4	1019.8 1	1017.9 4.339 19
07	MEAN S. D. TOTAL OBS	1018.5 3.689 249	1018.6 3.737 243	1016.8 3.783 275	1016.6 2.668 270	1014.9 2.394 278	1013.9 2.193 281	1014.1 2.011 283	1013.9 2.305 289	1013.3 2.520 272	1015.8 2.316 276	1017.7 3.332 249	1018.7 3.604 258	1016.0 3.509 3245
10	MEAN S. D. TOTAL OBS	1019.7 3.655 288	1019.5 3.737 241	1017.6 3.694 292	1017.2 2.608 281	1015.3 2.333 278	1014.3 2.207 283	1014.5 2.005 285	1014.4 2.311 289	1013.8 2.543 272	1016.3 2.298 281	1018.3 3.372 264	1019.7 3.678 268	1016.7 3.645 3338
13	MEAN S. D. TOTAL OBS	1017.6 3.486 288	1017.9 3.618 241	1016.6 3.561 292	1016.5 2.495 281	1014.9 2.313 278	1014.0 2.200 282	1014.1 1.979 285	1013.7 2.327 289	1012.8 2.565 272	1014.8 2.234 281	1016.5 3.265 264	1017.7 3.531 268	1015.6 3.301 3337
16	MEAN S. D. TOTAL OBS	1017.2 3.547 280	1017.2 3.642 258	1015.6 3.440 283	1015.6 2.430 269	1014.1 2.204 242	1013.2 2.176 288	1013.1 1.984 238	1012.7 2.323 288	1011.8 2.463 235	1014.3 2.279 245	1016.0 3.264 264	1017.2 3.492 267	1014.9 3.389 3081
19	MEAN S. D. TOTAL OBS	1017.9 3.638 233	1017.9 3.724 215	1016.0 3.900 288	1015.7 2.428 244	1014.3 2.232 231	1013.1 2.190 238	1013.0 2.027 227	1012.6 2.292 240	1012.2 2.413 224	1014.9 2.272 224	1016.8 3.208 216	1017.9 3.660 212	1015.2 3.510 2758
22	MEAN S. D. TOTAL OBS	1018.4 3.679 104	1017.3 4.271 95	1016.8 3.679 131	1016.3 2.268 140	1014.8 2.327 135	1014.1 2.052 187	1013.7 1.895 153	1013.0 2.322 155	1012.6 2.332 142	1015.4 2.224 141	1017.5 3.426 141	1018.1 3.972 126	1015.5 3.462 1622
ALL HOURS	MEAN S. D. TOTAL OBS	1018.2 3.714 1465	1018.2 3.813 1332	1016.6 3.659 1521	1016.4 2.569 1491	1014.7 2.348 1486	1013.8 2.225 1491	1013.8 2.047 1468	1013.5 2.404 1522	1012.8 2.582 1422	1015.3 2.374 1450	1017.1 3.404 1409	1018.3 3.731 1402	1015.7 3.527 17419

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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

93115 IMPERIAL BEACH, CALIFORNIA

73-92

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN	30.115			30.037	29.910		29.900	29.880	29.850		30.094	30.045	30.035	
	S. D.	.135										.098		.121	
	TOTAL OBS				3	2		1	1	1		5	2	19	
02	MEAN	30.118	30.030		30.050	29.890			29.900	29.855		30.090	30.090	30.033	
	S. D.	.123										.088		.129	
	TOTAL OBS	5	1		1	2			1	2		1	1	19	
03	MEAN	30.048	30.052	29.998	29.994	29.942	29.914	29.920	29.915	29.895	29.968	30.025	30.056	29.975	
	S. D.	.109	.111	.112	.079	.072	.065	.060	.069	.075	.070	.099	.110	.104	
	TOTAL OBS	249	243	275	270	278	283	283	289	272	276	249	258	3245	
04	MEAN	30.086	30.080	30.021	30.011	29.956	29.925	29.932	29.928	29.909	29.984	30.044	30.085	29.996	
	S. D.	.108	.111	.109	.077	.071	.066	.060	.069	.077	.069	.100	.109	.128	
	TOTAL OBS	244	241	292	281	278	283	285	289	272	281	268	268	3338	
05	MEAN	30.021	30.033	29.991	29.989	29.940	29.916	29.918	29.909	29.880	29.941	29.990	30.025	29.963	
	S. D.	.103	.107	.106	.074	.069	.066	.059	.069	.076	.067	.097	.105	.098	
	TOTAL OBS	244	241	292	281	278	282	285	289	272	281	268	268	3337	
06	MEAN	30.010	30.010	29.964	29.963	29.919	29.891	29.888	29.878	29.852	29.925	29.976	30.012	29.943	
	S. D.	.105	.108	.102	.072	.066	.066	.059	.069	.073	.068	.097	.103	.100	
	TOTAL OBS	279	254	283	269	242	248	234	258	235	245	244	267	3080	
07	MEAN	30.030	30.030	29.976	29.965	29.925	29.889	29.887	29.876	29.863	29.944	29.999	30.033	29.950	
	S. D.	.108	.110	.103	.072	.067	.066	.060	.068	.072	.068	.096	.109	.104	
	TOTAL OBS	233	215	248	246	231	238	227	240	224	226	216	212	2758	
08	MEAN	30.046	30.013	29.997	29.984	29.940	29.919	29.907	29.887	29.874	29.958	30.020	30.038	29.960	
	S. D.	.108	.126	.109	.068	.070	.063	.056	.070	.070	.067	.102	.118	.103	
	TOTAL OBS	106	95	131	140	135	187	183	155	142	141	141	124	1622	
ALL HOURS	MEAN	30.041	30.039	29.991	29.985	29.938	29.909	29.911	29.901	29.881	29.954	30.009	30.042	29.966	
	S. D.	.110	.113	.108	.076	.070	.067	.062	.072	.077	.071	.101	.111	.104	
	TOTAL OBS	1468	1332	1521	1491	1444	1491	1468	1522	1422	1450	1409	1402	17418	

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